

Chemical Week INDEX

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Control Room

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Antibiotics

Farbwerke Hoechst develops Flavomycin for use in animal feed	N	Sept	27	57
Panalba, antibiotic combination drug, banned by FDA	N	Sept	27	23
Synthesis for a new and unusual antibiotic called phosphomycin, effective against bacteria in animals, reported	N	Oct	11	55
Tetracycline cases				
International Rectifier files restraint of trade suit	R	Dec	24	26
Third chapter in tetracycline's tale: Justice seeks \$25 million in damages		July	26	20
U.K. clamping down on the use of antibiotics in animal feed supplements	N	Dec	3	45
Upjohn and Merck ordered by FDA to recall and relabel products containing novobiocin	N	July	26	14

Antifreeze

Ethylene glycol-based antifreeze prices	N	Dec	10	54
Hard-hitting anti-freeze advertising campaigns are boosting sales; anti-leak formulas at center of a controversy		Dec	24	62
Antimony Prices	N	Sept	13	54
Antimony Oxide Prices	N	Oct	4	37
Antioxidants - Cyanamid specialty chemicals plant at Rotterdam complex		Oct	11	28

Antitrust

Antitrust is tough on Americans too - Viewpoint		Nov	5	5
Ciba and Geigy merger may be contingent on a U.S. Justice Dept. ruling	N	Sept	13	10
Conglomerates: FTC fights togetherness trend		Nov	12	21
Drugs: Justice sues Ciba, CPC International over drug patents, licensing deals		July	19	23
EEC anti-trust team fines nine European chemical firms for alleged price fixing of aniline dyes	N	Aug	2	20
Attempt to fine draws a "you-can't-do-it-to-us" response from four companies outside Common Market	N	Aug	16	48
Geigy and Sandoz seeking cancellation of fines	N	Oct	18	65
ICI appeals fine	R	Nov	5	21
EEC is reported to be preparing action against fertilizer cartel and other fertilizer marketers	N	Aug	16	48
Europe's quinone cartel target of EEC cartel commission	N	July	5	32
Quinine cartel will pay \$500,000 in fines for breach of EEC antitrust regulations	N	Aug	2	28
FMC cleared of collusion in chlorine-caustic price-fixing suit		Sept	6	16
GM stockholders suit against Du Pont reopened		Aug	23	20
Justice Dept. settles its antitrust suit against major auto makers	N	Sept	20	33
Consent decree approved	N	Nov	5	20
Justice Dept. will look into joint bidding by major oil companies, presumably including those on Alaskan oil leases		Oct	18	34
KZO offers to buy up to 1 million shares of International Salt	R	Sept	20	43
Justice Dept. seeks postponement of proposed acquisition and is rebuffed		Oct	11	28
Mergers: first-half '69 chemical industry mergers up 34.7% (table)		July	12	9
Northwest-Goodrich case N July 19-17	N	Aug	2	9
Robinson-Patman Antitrust Act - hearings	N	Oct	29	40
Witco - Justice Dept. charges the company conspired with distributors to allocate sales territories of its Kendall-brand petroleum products	N	Aug	2	9
Justice Dept. wants a consent decree	N	Dec	17	18

Area Development

Louisiana losing its lure?		Nov	12	19
Odessa, Tex., to be found of learning or fount of oil?		Nov	5	21

Argentina

BASF's industrial chemical complex at Rosario	R	Dec	24	39
Bomb blasts hit U.S. chemical company offices in Buenos Aires	N	Dec	3	20
Dimethyl terephthalate plant in Chubut	N	Sept	6	24
Dow's planned petrochemical complex at Bahia Blanca protested by producers	N	July	5	36
Venture delayed	N	Aug	9	25
Chemico is prime contractor	N	Sept	13	24
Dow confirms proposal to build complex under terms of the country's new "petrochemical promotions" law (table)		Sept	13	29
Gets government approval	N	Dec	10	28
Fertilizer industry expects dumping by European producers	N	July	5	31
Government sets "promotional" prices - quantity discounts - for feedstock		Aug	9	25
IPAKO expansion completed	R	Oct	29	57
Labor unrest despite a wage increase	N	Nov	12	28
Natural gas pipeline from Bolivia				
World Bank loan will cover half the cost of construction	N	July	12	25
Government will assume guarantees to permit resumption of work on pipeline		Dec	24	39
Petrochemical users are resisting Dow's sales efforts		Dec	24	39
Violence hits IBEC supermarkets	N	July	5	36

Argon

Chemtron's National Cylinder Gas Div. starts producing oxygen, nitrogen and argon at Mt. Vernon, Ind., plant	R	Aug	23	22
Industrial gases' outlook: new processing, pollution control uses bolster outlook (chart)		Sept	27	39

Aromatics

Aromatic acids	C	Sept	20	100
CORCO's plant at Penuelas, P.R., starts up N Aug 23-60	N	Nov	5	30
France's Total-Chemie will build plant at Gonfreville	N	Sept	27	24
Indian Petrochemical's plant at Koyali	R	Oct	11	36
Japanese plant planned	R	Nov	19	120
OIA amended regulations say that petroleum-derived C ₁₀ to C ₁₆ paraffins or mono-olefins are to be treated like ethylene	N	Sept	13	9
Arsenic trichloride ultrapure chemicals	C	Nov	19	97

Asbestos - Belting, called Tufbestos: impregnating woven asbestos with Teflon to form a conveyor belt		Aug	16	108
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Asia - New plants, expansions	R	Dec	17	40
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Asphalt - Gulf Oil will convert two refineries to asphalt production at Calgary and Moose	N	Aug	23	14
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Astin, Dr. Allen will remain at NBS as "consultant-director emeritus"	N	Sept	27	23
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Atomic Energy Commission

Brookhaven National Lab. - Cheap power secret: huge plants, long lines, Western coal (table)		Oct	4	26
Government corporation to own gaseous diffusion plants now operated by AEC is the latest plan	N	July	19	31
Larson, Clarence E., nominated to five-year term	N	July	5	23
Preventive for foot-and-mouth disease tested in mice	N	Dec	3	45
Process for mixing industrial and municipal waste residues into asphalt or plastic described at AICE meeting by R. Blanco		Sept	6	43
Radiation-induced polymerization of vinyl acetate homopolymers and copolymers move into the pilot plant	N	Dec	10	67
Steinberg, M., outlines a new approach to the problem of treating effluent from municipal sewage plants: use a chemonuclear reactor to generate ozone, at AICHE meeting		Nov	26	129

Three gaseous diffusion plants for uranium enrichment to be operated as separate commercial enterprises, development	N	Nov	19	41
Vaccine against hepatitis, development	N	Nov	12	44
Zwack bill to permit states to set more stringent rules on the discharge of radioactive wastes, than those imposed by AEC, introduced	N	July	12	25

Atomic Energy Research Institute - Fine-particle PE made by nuclear radiation begins test phase in Japan	N	Dec	17	70
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Atomic Power

American-design nuclear power plants, which use enriched uranium, are better than plants using natural uranium as their fuel, says Electricite de France's Marcel Boiteau		Nov	5	33
AEC sees Atomic Energy Commission				
Dow will participate in feasibility studies for a proposed agro-industrial nuclear energy complex in Puerto Rico	N	Aug	16	34
Fine-particle PE made by nuclear radiation begins test phase in Japan	N	Dec	17	70
Gas centrifuge to enrich uranium is moving forward	N	Nov	26	133
Gas-cooled fast-breeder reactor getting a big push in Europe	N	Dec	17	70
German firms will participate in the uranium enrichment centrifuge project	N	Dec	10	68
Industrial group considering uranium enrichment in Japan	N	July	19	51
Laser generator developed in France: step toward control of nuclear fusion	N	Sept	27	57
NAS: give chemical companies top priority on fossil fuel use		Nov	26	28
Nuclear power may replace chemical power in space exploration rockets	N	Aug	16	47
Nuclear power plant on the Ohio River, near Moscow, O. planned	R	Sept	27	18
Nuclear radiation applying for job in enzyme processing	R	Aug	23	74
RWC's nuclear irradiator onstream at Hanover, N.J., plant to produce irradiated wood/plastic parquet flooring	N	Aug	9	33
Soviet nuclear reactor specialists return home after U.S. tour		Dec	10	64
Swedish Assn. of Engineers running a contest to find out what you can do with the waste heat from a nuclear reactor	N	Dec	17	70
Thermal pollution see Water Pollution				
Uranium see Uranium				

Australia

Austral-Pacific's Gibson Island, Queensland, fertilizer plant onstream	N	Oct	4	20
Construction of an entire town to serve the huge alumina bauxite project on Gove Peninsula planned	R	Dec	17	26
Dow expanding rapidly	N	Nov	19	114
Dow may build caustic soda plant in Queensland	N	Aug	30	20

Du Pont plans to establish a wholly owned subsidiary to replace the Australian branch of Du Pont Far

East, a U.S. company	N	Aug	30	20
ICI/ANZ boosts net profits 15%	N	Dec	24	32
Isocyanates plant at Newcastle	N	Oct	29	49
LPG for Japanese firms	N	Oct	29	50
New plants, expansions	R	Dec	17	40
Pacific's CPI prospects: proposed power/chemicals complex could spur trade in Far East (table)		Sept	6	41

Pilot plant to hurry manufacture of uranium oxide fuel pellets for reactor	N	Sept	27	58
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Austria - Reichhold Chemie agreement to supply Russia with industrial paint know-how, also provides for the sale of leather, wood and automobile finishes to the Soviets		Aug	9	26
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Automobile Manufacturers Assn. - Justice Dept. settles its antitrust suit against major auto makers	N	Sept	20	33
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Automobiles

Air bags may join seat belts as major auto safety devices	N	Aug	30	40
Makers want more time to eliminate bugs in air bags	N	Sept	6	48
Autocast Ti-22, racer built with weight-saving metals; significant for producers of titanium and aluminum		Oct	18	61
Dual-fuel auto engine - gasoline or natural gas - will undergo government tests	N	Dec	17	69
Ford program "to minimize pollution from its products and its plants in the shortest possible time"		Dec	17	23
Ford says sales (including imports) will decline next year	R	Dec	17	26
Fueling cars of the future		Sept	27	53
GM sees auto sales dip next year		Dec	24	25
IGT fleet testing of vehicles fueled by natural gas		Dec	17	23
Interim exhaust emission standards will be published	N	Dec	3	19
Justice Dept. settles its antitrust suit against major auto makers	N	Sept	20	33
Consent decree approved		Nov	5	20
Plastics in new cars: only three major new applications		Sept	6	13
Rubberized bumpers		Nov	5	21
Transit program in trouble		Aug	16	39

B

Bactericides

Betadine and sodium hypochlorite help "decontaminate" the returning astronauts		Aug	2	40
Synthesis for a new and unusual antibiotic called phosphomycin, effective against bacteria in animals reported	N	Oct	11	55
Bags - N.Y. City may use plastic and paper bags throughout the city for garbage disposal	N	Nov	5	36

Barges

Du Pont files cargo damage suit against Blue Star Line and Southern Towing	N	Sept	20	34
Fluor Ocean Services' new barges to develop more efficient construction equipment for use in the Gulf of Mexico	N	Aug	9	34
Mixing rule bill for barge lines buried by House Rules Committee	N	Nov	19	48
Phosphate plants cut costs with new materials-handling methods		Nov	12	34
Plant sites '69 report. J.M. Winton (charts & tables)		Oct	29	59

Battelle Memorial Institute

Corrosion of titanium sea-water desalting plants will be studied	N	Aug	23	73
Staley's prepress colorproofing system	N	Aug	9	33

Batteries

Rechargeable alkaline battery system that would be small enough and reliable enough to be implanted as a heart pacemaker		Oct	4	26
Sodium-sulfur battery for electric cars from Ford	N	Nov	19	89
Beer - Brewing complex at Fogelsville, near Allentown, Pa., planned	N	Dec	17	17

Behind the News

Computer got us, and we like it		Oct	29	5
Have a look at yourself - picture of the CHEMICAL WEEK subscriber		Oct	18	5
No one wants to talk detergents		Sept	20	5

Belgium

Amoco's Geel plants to produce polystyrene, polystyrene and isothiazole acid		Nov	12	30
BASF Antwerpen will invest \$200 million in the next two years in new plants and expansion in Antwerp	N	Aug	2	20
Black masterbatch plant planned by Cabot Belgium	R	Dec	3	23
Ethanol synthesis plant R Oct 29-56	R	Dec	3	23
Europe's chemical plants set for home, overseas investment drive - report (charts & tables)		Dec	10	44
Fatty amines plant planned	R	Dec	3	23

ICI considers investment	N	Oct	4	20	Bulgaria - Five Eastern European nations have combined to strengthen their chemical industries	N	Aug	23	28	Candee, Clifton Clark - Reorganizer Candee finds little time left for relaxing	Aug	9	41				
Monsanto Europe will boost rubber chemicals production at Antwerp	R	Aug	16	57	Burners - Selas Corp. develops high velocity, supersonic burner capable of vaporizing a piece of quarter-inch steel plate from a distance of 12 in.		Sept	27	49	Caprolactam - Italian plant at Manfredonia	N	Oct	4	20			
Monsanto herbicide formulation unit in Lillo	R	Oct	11	36	Butadiene					Carbon							
Monsanto will boost capacity of polyvinyl butyral sheet plant in Ghent	R	Nov	12	30	Japanese joint ventures	R	Aug	23-35	R	Sept	13	29	Carbon-13 prices	N	July	12	29
National Distillers will double capacity of low-density PE plant near Antwerp	R	Oct	11	36	UC's Texas City plant explosion and fire	N	Nov	5	30	Composites may find use as implant materials in humans	N	July	19	51			
Petrochim shows a net loss of \$1.15 million in '68	N	July	5	35	World market	N	Oct	18	69	Carbon, Activated							
Phthalic anhydride and phthalates joint venture	Aug	16	57	Butane - LPG feedstock shortage is coming (charts)	Sept	20	37	Clarke treatment process: room to spare, char to sell (flowsheet)	Sept	13	63						
Royal Dutch/Shell's chemical expansion in Moerdijk	N	Dec	10	28	Butyl Benzoate	C	Sept	20	100	Contract to investigate activated carbon for reclaiming water from pulp mill effluent awarded to St. Regis Paper	N	July	5	44			
Shell and Bayer plan diisocyanates plant	N	Dec	3	20	tert-Butyl Styrene	C	Nov	26	143	Z-M process: for cleaner effluent, hydrolyze the heavies (table)	Sept	13	63				
Solvay moving ahead with diversification in fibers	N	Dec	10	28	Buyers' Guide					Carbon Black							
Specialty dyes and chemicals plant in Terte Villerot	R	Dec	24	39	Chemicals	Oct	11	P12	Asphalt plans plant at Speyer, West Germany	R	Dec	17	40				
Superphosphoric acid plant near Liege planned	N	Sept	6	24	Equipment/packaging	Oct	18	P12	Clarke treatment process: room to spare, char to sell (flowsheet)	Sept	13	63					
Union Chimique capital investments in fiscal '69-'70 will be close to \$20 million	N	July	5	35	- letter	Nov	26	12	Columbia Carbon's ninth plant in Marshall County, W. Va.	R	Oct	18	34				
VCN plant, probably in Limburg province planned	N	July	12	33					Phillips output at Port Elizabeth, South Africa expansion	R	Dec	24	39				
Benzaldehyde - Prices	N	July	5	31					Singapore petrochemical plant feasibility studied	N	Sept	27	24				
Benzene					Cadmium					Carbon Dioxide							
Calvo Sotelo plans plant at Puertollano, Spain	R	Dec	24	39	Bill to release cadmium introduced	N	Aug	2	19	CO ₂ plans: installation at Marmet, W. Va. to use CO ₂ off-gas from Du Pont's ammonia plant; 600-ton plant at Luling, La.	N	Oct	29	25			
Corco's aromatics plant startup in Puerto Rico will not disrupt domestic prices, says Pres. Casey	N	Aug	23	60	Bill passed without opposition	N	Dec	3	19	Chemical's plant near Morris, Ill.	R	Oct	18	34			
Output for first six months of '69	N	Aug	30	29	Metal finishers are feeling the brunt of cadmium and nickel shortages	N	Aug	23	59	Liquid carbon dioxide as solvent for extracting flavor and aroma components from fruits and fruit juices	N	July	5	44			
Prices	N	July	5	31	Calcium - American Cyanamid acquires Sargent Calcium	N	July	26	13	Vistron plants plant at Lima, O.	N	Oct	29	25			
Benzene hexachloride use around the world to be reduced	N	Dec	24	72	Calcium Etenolate - Virus-inactivating experimental drug tested	N	Nov	5	35	Carbon Monoxide							
Benzenoid imports see Tariffs	N	Dec	24	72	Calcium Hypochlorite - Prices	N	Sept	13	53	Air Products' plant in LaPorte, Tex., onstream	N	July	26	38			
Benzoic Acid - Prices	N	Dec	17	56	Calumet Enforcement Conference - Chicago's Metropolitan Sanitary District denies extension of pollution control deadline	N	Sept	6	47	U.S.'s first OG unit to collect CO from basic oxygen converters at Armco's plant at Middletown, O.	N	Aug	9	34			
Benzyl Chloride - Monsanto expands production at Bridgeport, N.J. plant	R	July	12	26	Canada					Carboranes - Icosahedral carboranes	C	Nov	19	97			
Betadine - Bactericides help "decontaminate" the returning astronauts	N	Aug	2	40	Amaz and Penarroya joint study for exploitation of the York-Hardy molybdenum deposits in British Columbia	R	Aug	30	16	Carpets - Shampoos: additives cause carpet shampoos to dry to a brittle residue that can be swept off, leaves no dirty-attracting film	July	12	26				
Beta-Naphthol - Prices	N	Nov	5	30	BASF Canada's Laval, Montreal complex	R	Dec	3	24	Casting - Epoxy-casting resin	C	Dec	3	43			
Bismuth - Prices	N	Aug	9	28	BASF, Gulf in '69 battle	July	19	47		Catalysts							
Bleaching - Du Pont new peroxygen compound, Tyox, an hydrogen peroxide analyzer promise solutions to textile-bleaching problems	July	5	39	Cardinal Protein will build fish protein plant in Nova Scotia	N	Dec	3	10	Catalyst that would cause DDT to destroy itself is the goal of a study contract	N	July	19	31				
Blood - Colestipol: new drug to lower cholesterol levels in blood	N	Nov	19	90	Chemcell will invest in oil and gas business	N	Oct	29	49	Drew Chemical's Bonton, N.J. plant: chemical regeneration of the nickel catalysts used to hydrogenate fats and oils	Dec	10	63				
Boilers - Oil removal boil-out	C	Aug	23	79	Contract prices of sour gas sulfur dropped	N	Nov	19	76	Esso Research received government contract to answer the question: Why has the USSR not cashed in on its outstanding theoretical studies in catalysis?	Sept	20	117				
Bolivia					Du Pont's Dacron polyester fiber plant expected to start up in '71 at Morrisburg, Ont.	N	July	19	17	Conclusion	N	Sept	20	124			
Government orders Gulf Oil to provide the country with free natural gas for domestic consumption for 10 years	N	Sept	13	24	Electric Reduction resumes output at phosphorus plant in Newfoundland	N	July	19	51	Fast way to load catalyst into fixed bed reactor tubes	N	Sept	20	124			
Gulf Oil's subsidiary, Bolivian Gulf Oil nationalized	N	Oct	29	49	Four leading Canadian companies boosted first-half '69 sales and profits	Aug	16	38	Formaldehyde processes: they all promise longer catalyst life	Nov	19	79					
Gulf takeover: government plans petrochemical buildup	Dec	3	23	Freight rates are shaping up as a threat to potash industry	N	Dec	3	36	- letter	Dec	17	8					
Natural gas pipeline from Bolivia to Argentina - World Bank loan will cover half the cost of construction	N	July	12	25	Gulf Oil will convert two refineries to asphalt production at Calgary and Moose	N	Aug	23	14	Industrial catalysts and molecular sieves for controlled oxygen atmosphere for food preservation	July	26	28				
Argentina will assume guarantees to permit resumption of work on pipeline	Dec	24	39	Hudson's Bay Oil & Gas agreement with Great Plain Development of Canada for 50% interest in 3.7 million acres of oil leases in Canada's Arctic Islands	N	July	19	18	Non-noble metal catalyst for nitric acid	Sept	13	68					
Quinine venture, Farmaceutica Boliviana, being readied	N	July	5	32	Hungary's Chemolint investing \$54 million in a Canadian potash project	N	Aug	2	20	Organophosphines	C	Aug	16	110			
U.S. investments getting close government scrutiny	N	Oct	18	65	Imperial Oil's polypropylene plant at Sarnia complex	R	July	5	34	Tin catalysts for making urethanes patent dispute	N	Nov	12	44			
Book Reviews - Etlinger, M.B. - "Standards and Methods for the Medico Science Manager"	Dec	24	77	Lime in treatment of raw sewage - Ontario Water Resources Commission test program	N	Oct	4	48	Caustic Soda								
Boric Acid - U.S. Borax patents it anhydrous boric acid process	N	Nov	19	89	LNG plant for BC Hydro	R	Dec	3	24	Chlorine-caustic price-fixing suit: FMC cleared of collusion	Sept	6	16				
Borneo - World's largest natural gas liquefaction plant in Brunei will use U.S. technology	N	Oct	4	47	LPG feedstock shortage may mean more gas liquids imports from Canada (charts)	Sept	20	37	Discount pricing may be eliminated	N	Dec	17	56				
Boron Trioxide - Ultrapure chemicals	C	Nov	19	97	National Distillers-Phillips set PE project	Aug	2	14	Dow plans chlorine-caustic solvents complex at Stade, W. Germany	N	Oct	29	26				
Bottles					Nova Scotia's Glace Bay heavy-water plant: U.S. team report	N	July	12	43	Dow's plant in Australia possible	N	Aug	30	20			
Coca-Cola evaluating plastic bottles made from a material named LOPAC	Nov	12	19		Nova Scotia oil? controversial amendments have been enacted	N	Oct	18	33	GAF chlorine-caustic expansion at Linden, N.J.	R	Dec	10	22			
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Brighteners, Optical - Cyanamid specialty chemicals plant at Rotterdam, Holland, complex	Oct	11	28	Saskatchewan's potash production and price controls unveiled	N	Nov	26	119	Protein from cellulose waste products	Nov	12	49					
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Great Lakes Chemical's rise has been buoyed by bromine (charts)	Nov	19	53	Submarine tanker may haul oil and sulfur out of Canadian Arctic	Oct	29	96										
Great Lakes, Germany's Klak, swap flame-retardant technology	Dec	17	24	Sulfur: plenty now, more on the way	Oct	4	12										
Sulfuric acid users are feeling the impact of Inco strike	N	Aug	16	87	Tantalum mill is processing 500 tons/day of ore	Sept	20	112									

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Quinine cartel target of EEC commission	N	July	5	32
Quinine cartel will pay \$500,000 in fines for breach of EEC antitrust regulations	N	Aug	2	28
Quinine venture, Famexequa, Bolivia, being redied in Bolivia	N	July	5	32
Sinequan doxepin hydrochloride new drug that is said to combat both anxiety and depression	N	Nov	26	134
Squibb's new plant introduces improved drug processing methods		Nov	19	107
Swedish government discloses that the nation's pharmacies will be nationalized on Jan. 1, '71	N	Oct	18	66
Upjohn: an old-line pharmaceutical firm makes it big in urethanes at Bahia		Dec	3	29
Vaccine				
German measles vaccine will be distributed by Philips-Roxane	N	Dec	17	31
Hepatitis vaccine development	N	Nov	12	44
Rubella - National effort to head off a rubella outbreak expected in '71 has run into trouble	N	Oct	4	19
Virus-inactivating experimental drug tested	N	Nov	5	35
Duncan, William - ICI America's new chairman: In new U.S. job, Scotsman seeks new worlds to win		Dec	3	54
Dust collectors	C	Dec	17	79
Dyes				
Allied Chemical: waste treatment is key to modernizing 90-year-old dye plant		Sept	27	29
BASF complex in Beaufort County, S.C. Bathroom: automatic-dispensing toilet-bowl cleaners (charts)		Oct	29	88
EEC anti-trust team fines nine European chemical firms for alleged price fixing of aniline dyes	N	Aug	2	20
Attempt to fine draws a "you-can't-do-it-to-us" response from four companies outside Common Market	N	Aug	16	48
Geigy and Sandoz seeking cancellation of fines	N	Oct	18	65
ICI appeals fine	N	Nov	5	21
Imports up		Sept	20	40
Paper product dyes	C	July	26	57
E				
Education				
Chemical companies' retirees launch new careers in teaching		Aug	30	43
Workshop on computer process control languages offered on tape by IEEE		Dec	3	51
Edwards, Charles C. - FDA's new boss: Can he cure FDA's many ailments?		Dec	24	24
Eisner, James R. - Ott Chemical new chairman: A man who'll take a chance		July	12	38
Elastomers				
ANIC will double synthetic elastomer capacity	R	Dec	3	23
Epichlorohydrin capacity at Goodrich's Avon Lake, O., plant boosted	R	Oct	29	35
Fluorocarbon elastomer		Sept	20	117
Sales leap		Sept	20	40
Electric Power Generation				
Cheap power secret: huge plants, long lines, Western coal (table)		Oct	4	26
Plant sites '69 report, J.M. Winton (charts & tables)		Oct	29	59
Reactors see Reactors				
Electrodeposition - Prince of Wales crowned with aid of 150-year-old chemical process		Oct	11	65
Electrodes				
Ion-exchange electrodes for potassium detection	N	Aug	23	74
Process-control electrodes keep eye on ions		July	26	49

Electroanalysis - Japanese groups team up to push electroanalysis as a way of getting fresh water from salty well water	N	Nov	5	36
Electroforming - Prince of Wales crowned with aid of 150-year-old chemical process		Oct	11	65
Electrolytes - Prince of Wales crowned with aid of 150-year-old chemical process		Oct	11	65
Electronics				
Heat-sink grease	C	Sept	20	104
Micro "magnetic bubbles" may be the answer in building low-cost, compact computer and telephone switching systems	N	Aug	16	102
Emulsifiers - 2-sulfoethyl methacrylate (SEM), new monomer introduced by Dow	N	July	12	44
Emulsions				
Dimethyl silicone fluids, emulsions and antifoam formulation prices	N	Nov	12	38
High-gloss paint emulsion	C	Sept	20	104
Wax emulsions prices	N	Dec	17	56
Energy Research & Education Foundation				
Houston oil men organize "to disseminate the facts" about the oil, gas and petrochemical industries		Dec	24	25
Engineering				
AIChE hears of new techniques to cut costs: valve trays for distillation columns; nuclear reactors to make ozone		Nov	26	129
AEI's Blanco describes process for mixing industrial and municipal waste residues into asphalt or plastic at AICE meeting		Sept	6	43
Brown & Root's "Mr. Clyde", erection pole and gallows head assembly, has the greatest lifting capacity now available in the construction industry		Oct	11	73
CPI construction costs at Cincinnati: Can labor costs be curbed? (chart)		Aug	16	99
Coal - not nuclear fuels - proposed as 3-mill power source (table)		Oct	4	26
Con Gas starts up a large cryogenic plant to separate natural gas liquids at Hastings, N.V.		Nov	12	50
The dynamic equipment/engineering industry - letters Aug 16-5		Sept	20	16
Formaldehyde processes: they all promise longer catalyst life		Nov	19	79
Giant single-train urea plants are here (chart)		July	19	59
Managing new engineers - Six prophecies for the '70s		Oct	29	133
Melamine plants and processes - U.S. makers adopt Dutch process to foil import threat (table)		July	12	49
National Engineering Information Conference - no evidence of critical inefficiency in the nation's scientific and technical communications		July	5	45
Nickel-using processes aim to cut consumption: (1) new bright metal-plating processes that can halve nickel consumption in decorative nickel-plating; (2) chemical regeneration of the nickel catalysts used to hydrogenate fats and oil		Dec	10	63
Oxygen debuts in the pulp mill: first-stage bleaching of kraft pulp with high-pressure oxygen and steam may replace three conventional steps using chlorine and hypochlorites (flowchart)		Oct	18	103
Pacific's CPI prospects: proposed power chemicals complex could spur trade in Far East (table)		Sept	6	41
Phenol-from-cumene - Coproduct acetone: asset or Achilles heel in top phenol process? (table)		Sept	20	133
Engines				
Cesium oxide engines for generating electricity in MHD or thermionic-converter systems	N	Oct	29	120
Dual-fuel auto engine - gasoline or natural gas - will undergo government tests	N	Dec	17	69
Ford program "to minimize pollution from its products and its plants in the shortest possible time"		Dec	17	23
Rocket engine for new space shuttle vehicle - competition	N	Sept	27	23
Enzymes				
Detergents containing enzymes may be the next target of federal consumer safety agencies	N	Dec	10	54
IMC and Ajinomoto joint venture to produce protease enzymes and amino acids in U.S.	R	July	12	21
Imports nearly doubled	N	Oct	29	105
Novo Industri A/S, major new U.S. producer of enzymes	N	Nov	5	29
Novo Industri's enzyme fermentation plant at Kalundborg, Denmark	N	Nov	19	114
Nuclear radiation applying for job in enzyme processing	N	Aug	23	74
Proteolytic detergent enzyme prices	N	Aug	9	28
Radioactive enzymes	C	Sept	20	100
Research pushed by British	N	Nov	12	44
U.S. industries entering the enzyme detergents field	N	Nov	26	22

Epoxies see Resins

Equipment						
"Chemical jackhammer" will demolish concrete quietly and quickly	N	Sept	13	67		
Chemshow reflects healthy state of chemical equipment business		Dec	10	57		
The dynamic equipment/engineering industry - letters Aug 16-5		Sept	20	16		
Selas Corp. develops a high-velocity, superionic burner capable of vaporizing a piece of quarter-inch steel plate from a distance of 12 in.		Sept	27	49		
Esters						
Armour's J. Gardner: Fatty acids, esters production will reach 181 million lbs. next year		Oct	4	14		
Ester alcohol	C	Sept	20	100		
Phosphate ester plasticizer prices	N	Nov	12	38		
Process for making sugar esters	N	Sept	13	67		
Thiodipropionic acid ester	C	Nov	19	97		
Ethane - LPG feedstock shortage is coming (charts)		Sept	20	37		
Ethanol						
Belgium plant planned R Oct 29-56	R	Dec	3	23		
Japan Ethanol will make synthetic alcohol from ethylene	R	Dec	3	24		
U.S. Industrial Chemicals plants ethanol capacity expansion	N	Aug	9	12		
Ethanolamine - BASF's new process for making ethylenediamine	N	Aug	16	102		
Ethers						
Allyl glycidyl ether	C	Dec	17	79		
Dow planning propylene glycol and polypropylene glycol ether plants in Australia	N	Nov	19	114		
Ethers look good in early tests for insect control	N	Aug	9	34		
Ethyl ether prices	N	Oct	18	57		
Ethylene glycol ethers	C	Oct	29	129		
Ethylbenzene - ROW's unit at Wessling onstream	R	Oct	11	36		
Ethylene						
Argentina: Dow's planned petrochemical complex at Bahia Blanca protested by producers	N	July	5	36		
Venture delayed	N	Aug	9	25		
Chemico is prime contractor	N	Sept	13	24		
Dow confirms proposal to build complex under terms of the country's new "petroleum promotions" law (table)		Sept	13	29		
Gets government approval	N	Dec	10	28		
Big new plants will be too late to solve present shortage		Dec	3	12		
Calvo Sotelo petrochemical expansion in Puertollano	N	Sept	20	48		
Dow output upped as company bids to become one of Europe's biggest ethylene producers		Oct	18	69		
Dow to build naphtha cracker at Terneuzen, Netherlands complex N Oct 29-26	R	Dec	10	22		
IQA's ethylene expansion	R	Oct	11	36		
IPAKO expansion completed	R	Oct	29	57		
Japan's Hasegawa sees a cost-price squeeze ahead	N	Sept	6	34		
Mitsui group: to build plant using Lummas know-how in Russia	N	July	19	45		
Neste Oy unit near Helsinki	R	Oct	29	57		
Petrochim's two naphtha crackers onstream	N	July	5	35		
Rheinische Olefinwerke launching expansion program	R	Oct	29	57		
Russia: bids for ethylene plant from Mitsui and Toyo Menka Kaisha would mean more U.S. technology for the USSR	N	Aug	30	39		
Sanyo Petrochemical's second plant awaits Japan's approval	R	Nov	19	44		
Shell Chemical boosts capacity	N	Dec	3	20		
Soc. Chimique des Charbonnages expands capacity at Lorraine, France	R	Dec	3	24		
South African plant at Sasolburg onstream	R	July	5	34		
UC's Texas City plant explosion and fire		N	Nov	5	30	
Ethylene Diamine						
BASF's new process	N	Aug	16	102		
Dow will double its capacity at Terneuzen plant	R	Nov	12	30		
Ethylene Dibromide - Ethyl-Dow's plant at Freeport, Tex. will close; Magnolia, Ark., plant going onstream	N	Aug	9	27		
Ethylene Dichloride - Monsanto Iberica plant at Tarragona		Aug	30	32		
Ethylene Glycol						
Northern Petrochemical's plant near Joliet, Ill., onstream; second will be completed in early '70	N	Nov	26	120		
Senboku's plant near Osaka	R	Nov	12	32		
Shortage: four factors are contributing	N	Nov	19	75		
Ethylene Oxide						
Northern Petrochemical ethylene glycol/oxide plant near Joliet, Ill., onstream; second will be completed in early '70	N	Nov	26	120		
N Aug 23-13	N	Oct	18	72		
PEO being marketed in Japan	N	Nov	26	120		
Senboku's plant near Osaka	R	Nov	12	32		

Ethylene-propylene-diene - Goodrich: E.P.D.M. joint development program and engineering studies on a commercial plant at Orange, Tex. N Aug 2 39

Ethylene vinyl acetate see Ethylene, Vinyl Acetate

Europe
Chemical giants set for home, overseas investment drive - report (charts & tables) Dec 10 33

Dow: ethylene output upped as company bids to become one of Europe's biggest ethylene producers Oct 18 69

EEC anti-trust team fines nine European chemical firms for alleged price fixing of aniline dyes N Aug 2 20

Attempt to fine draws a "you-can't-do-it-to-us" response from four companies outside Common Market N Aug 16 48

Gelvy and Sandoz seeking cancellation of fines Oct 18 65

ICI appeals fine R Nov 5 21

EEC begins talks with Spain aimed at developing a preferential trade agreement

EEC experts see money pinch pushing European chemical companies into mergers N July 26 27

EEC is reported to be preparing action against fertilizer cartel and other fertilizer marketers N Aug 16 48

EEC leaders agree to consider admission of England, Denmark, Norway and Ireland into the six-nation European Economic Community N Dec 10 14

EEC nontariff barriers: What can the U.S. give to get reductions? (table) Dec 10 16

European governments are focusing more attention on acquisitions and mergers that may be harmful to free competition N Dec 24 32

Five Eastern European nations have combined to strengthen their chemical industries: Bulgaria, Czechoslovakia, East Germany, Poland and USSR N Aug 23 28

Gas centrifuge to enrich uranium is moving forward N Nov 26 133

Italian chemical strike: prelude to European labor strife? Sept 27 16

Japan and Europe build and buy chemical plants in the U.S. Nov 5 25

Mergers have government support N July 26 27

Mergers make problems Aug 30 31

Nalco and Hercules enter partnerships to supply chemicals and plants to ease European industries' pressing water pollution woes Nov 12 41

Natural gas looms large in Europe Dec 10 27

New plants, expansions R Dec 17 40

Quinine cartel target of EEC commission N July 5 32

Quinine cartel will pay \$500,000 in fines for breach of EEC antitrust regulations N Aug 2 28

Soviets negotiate natural gas pipeline deals in Europe and Japan Oct 29 50

Sulfur: plenty now, more on the way Oct 4 12

Synthetic fiber outlook cheerful Oct 18 69

U.S. chemical companies borrowing record sums in Europe July 12 36

European Petrochemical Assn.
Annual meeting (1st) N Oct 11 34

Synthetic fiber outlook cheerful Oct 18 69

Explosion-forming method from Foster Wheeler N Sept 27 58

Explosions
Air Products's air-separation plant at El Segundo, Calif., explosion and fire in a compressor Dec 17 24

Du Pont discontinues final processing of smokeless powder at Carneys Point, N.J., cellulose products plant in the wake of the June 4 blast N July 19 18

Illinois Central Railway cars of vinyl chloride explode Sept 20 38

Kansas City Southern freight train explosion unexplained N Aug 9 28

UC's Texas City plant explosion and fire N Nov 5 30

Wyandotte's Geismar, La., chlorine production halted by a flash explosion N July 26 38

Kearns, Henry, new president of Export-Import Bank, trying for more credit for U.S. exporters and on better terms N July 5 23

National Foreign Trade Convention: Stans favors U.S. adoption of a value-added tax; Percy calling for 'Nixon Round' of negotiations to lessen impact of imports Nov 26 26

New Jersey seeks 50% hike in world trade in next decade Dec 24 24

Nickel: issuance of export licenses for nickel discontinued N July 26 25

Oil quotas see imports N Nov 5 29

Sulfur exports are helping to keep the domestic inventories in line N July 5 35

Swiss chemical industry imports and exports N Aug 16 40

Textiles: Another try for textile curbs; Japanese delegation will discuss a curb on textile exports to the U.S. Nov 19 44

Textiles: Japan ready for voluntary textile curbs N Oct 4 19

Textiles: Japanese delegation hears of the importance of textiles to the U.S. economy N Nov 26 24

Trade bill: No surprises in trade bill - nor in chemicals' criticism N Nov 5 45

U.S. exporters of chemicals holding their own in W. Europe and Latin America, but being outbid by competitors in Asia and Africa: top10 in chemical trading (table) Aug 23 18

U.S. trade balance: now at \$300-million-year (chart) N Sept 6 23

Trade picture isn't likely to get better N First nine months '69 N Oct 5 21

West German 4% export tax was temporarily shelved N Oct 18 65

Expositions - Palexpo '69: a lot of unused but potentially significant technology will be exhibited for sale or license at a new kind of show this fall N Aug 2 40

Extraction
Con Gas starts up a large cryogenic plant to separate natural gas liquids at Hastings, W. Va. Nov 12 50

Fish protein concentrate processes, Vibin, IPA Dec 17 61

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Fabric Softener - Textile lubricant C Sept 20 104

Fatty Acids
Armour's J. Gardner: Fatty acids, esters production will reach 181 million lbs. next year Oct 4 14

Fatty acid products' prices N July 5 31

High-purity fatty acids C Oct 29 129

Kratco's Humko Products div. is building a dimer acid unit at Memphis, Tenn. plant R Aug 23 22

Federal Power Commission - Bureau of Natural Gas report says demand for natural gas will begin to outrun supplies in a "few years" N Oct 11 33

Federal Trade Commission
Calls for a new law to make it more difficult to form conglomerates Nov 12 21

Commissioner P. Eiman charges FTC is riddled with "waste, inefficiency and indifference to the public interest" N Sept 20 47

Enzyme detergents may be the next target of federal consumer safety agencies N Dec 10 54

Fair packaging and labeling regulations: FTC yielded to pressure by an industry-backed lawsuit, now excludes a number of items from FPLA coverage as not being "consumer commodities" N Aug 30 19

Felts - GAF industrial products plant at Westerly, R.I. expansion R Sept 13 18

Ferric Chloride - Prices N Dec 24 58

Fertilizers
ARCO dedicates Fort Madison, Ia., complex Oct 11 27

Austral-Pacific's Gibson Island, Queensland, plant onstream N Oct 4 20

Brighter future for fertilizer? Sales figures show increase Dec 17 51

Consumption during the '69 crop year will be down 3-4% N Oct 11 42

Continental Oil's attempt at a 10% across-the-board price boost for all fertilizers N Easo ag chem cuts: three Caribbean units sold to Grace, and liquid fertilizer blending plant at Warboys, England, to close Nov 26 27

EEC is reported to be preparing action against fertilizer cartel and other fertilizer marketers N Aug 16 48

Exports going up Oct 4 34

Grass growing attempted on North Slope tundra N Aug 23 74

India - Fertilizer Corp. of India will use Montecatini-Edison technology R Dec 3 23

India: Zuari Agro Chemicals' plant in Goa R Dec 17 40

Indian plant at Kanpur inaugurated N Dec 17 32

IMC fighting to break even Oct 18 31

Iran takes a petrochemical tack (map) Sept 20 139

IVP contract for construction of the "largest nitrogen fertilizer plant in the world" Sept 13 15

Japan boosts fertilizer exports to meet Red China's needs Nov 19 117

Japan Gas-Chemical abandons plans to supply Communist China with urea fertilizer from Alaska N Nov 12 28

Japanese firms negotiating with the South Vietnamese government for the export of nitrogenous fertilizer plant R Dec 17 40

Java: Tjirebon fertilizer project Sept 27 27

Liquid fertilizer marketing cost study N Oct 4 38

Mexico's Guanos goes south: builds unit in Guatemala Aug 30 32

Mobil selling most of its retail fertilizer business to Swift N Nov 12 14

N.Y.'s solid waste into fertilizer plant. N Orinco Chemicals plans fertilizer complex at Potenza, Italy N Sept 20 123

Outlook for '70: Overcapacity burdens fertilizer markets (chart) N July 12 33

Phosphoric prices weaken N Aug 16 91

Prices N Sept 27 44

Producers should step up their marketing function to match their supercharged manufacturing operations (chart) N Oct 4 38

Proposed uniting of three fertilizer industry associations R Oct 11 45

Prospects for fertilizer growth in the U.S., long-term, good; near-term, dim. N Rumanian plans Nov 26 119

Spain: phosphoric fertilizer project for Huelva possible N Aug 2 22

Sun Oil will build fertilizer complex on Martine and Guadalupe N July 12 33

Underdeveloped nations continue to build up fertilizer operations R Dec 10 22

Fertilizers see also individual fertilizers, Ammonia, Nitrogen, Phosphate etc.

Fibers
Acrylic fiber prices N Oct 11 42

Allied's fibers that have silken qualities: a nylon-polyester bicomponent fiber called Source, and a new nylon dubbed Caprolan Touch Sept 6 37

Carbon fiber - ICI opting against a commercial carbon fiber plant in the U.K. N Courtaulds' American subsidiary will build an acrylic fiber plant at Eastover, S.C. Nov 19 90

Dacron see Dacron

Du Pont's Qiana quickens its pace R Aug 16 42

Europe's synthetic fiber outlook cheerful. FTC says synthetic fiber manufacturers may be violating restraint of trade laws Sept 6 37

Fortafil 5-Y new high-strength, high-modulus graphite fiber Oct 18 69

GAF industrial products plant at Westerly, R.I. expansion N Aug 2 19

Hercules high-strength graphite fiber plant in Bowlin Green, Md. N July 5 43

Inventories of man-made fibers up sharply R Sept 13 18

Israeli fiber researcher, M. Lewin, aids J.P. Stevens during 8-month working visit to textile lab N Dec 17 69

Monsanto plans acrylic fiber plant in northern Holland Nov 12 49

Monsanto's acrylic fiber plant in Lingen, Germany N Aug 9 24

Monsanto's Textiles Div. realigns its structure to put more emphasis on market orientation N Oct 4 20

Northern Ireland's fiber industry escapes damage during riots Dec 17 26

Nylon see Nylon

Polyesters see Polyesters

Polypropylene see Polypropylene

Rohm & Haas says its new elastic fiber, Anim-8 (called XE while in development) is an acrylic copolymer N Aug 30 20

Synthetic fibers outlook: Slower growth, slimmer profits; trend to greater involvement in the textile industry (tables) Oct 29 116

Synthetic turf: legal scrimmage involves Monsanto and American Biltrite Nov 26 123

Three new high-temperature products; a fiber, a film and a varnish Aug 30 36

Filters
Dust filter N Oct 29 120

Pressure-vessel filters C Nov 26 143

Filtration - Reverse-osmosis and ultra-filtration moving out of the laboratory and into commercial use: Wide markets for thin membranes (chart) C Dec 3 43

Letters Oct 4-4 Aug 30 33

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Financial
Albright & Wilson first-half sales and earnings N Sept 27 24

Allied wants to buy up to 200,000 shares of its common stock for use in employee benefit programs and other corporate purposes R Aug 23 22

Allied's third-quarter report N Oct 18 25

Amcel Europe's profits in '68 drop N July 19 45

An inventory of the year that was - viewpoint Dec 24 5

ANIC's six-month sales N Dec 30 20

Atlantic Richfield's sales and earnings N Nov 12-13 N Dec 10 14

BASF's group sales in the first nine months increased 54.6% N Nov 5 24

BASF investing \$1 billion in new plants and expansions	N	July	5	35	GNP climbed again in the second quarter	N	July	26	13	Tenneco mortgage-pipeline bonds reach record interest	N	Sept	27	10
BASF sales up		Aug	9	26	GNP gains - Commerce Dept. figures		Oct	29	35	TVA plans to sell about \$100 million worth of power bonds in competitive bidding	R	Nov	5	21
Balance-of-payment					GNP will grow \$16-billion/quarter in last half '69 (chart)		Aug	23	17	Texas tell how to bankroll young chemical ventures		Nov	5	20
U.S. - A brighter payments picture?		Nov	26	30	Hoechst's sales in the first half of '69	N	Aug	23	28	Texas Gulf's earnings	N	Nov	12	13
Bayer's sales up		Aug	9	26	Outlook	N	Oct	18	65	Tight money policy - Economic brakes stay on, but "gradualism" may be dead		Dec	17	22
Worldwide sales increase expected	N	Nov	5	24	How the CPI really affects the industry		Nov	12	16	Tighter and more painful controls may be needed to curb inflation, says FRB's Robertson	N	Dec	17	18
Bayer will seek \$75 million in the international money market to cover financial requirements of affiliated Bayer Group	N	Nov	5	14	Huels' first-half sales increased 18.7% to \$166.6 million	N	Aug	16	48	Union Carbide sales and earnings outlook		Sept	27	17
The best control: self-control - Viewpoint		July	5	5	Sales for first 10 months in '69; expansion plans		Nov	26	36	Union Chimique Belge capital investments in fiscal '69-'70 will be close to \$20 million	N	July	5	35
Blasius Industries' sales gains and growth based on new products and external expansion		Dec	17	25	ICI assets could double in the next seven years		Sept	20	48	U.S. capital spending may slacken - NICB survey	N	Sept	6	9
Canada - Four leading companies boosted first-half '69 sales and profits		Aug	16	38	ICI's sales and earnings in '69	N	Oct	11	34	U.S. data show chemical process companies				
Canadian chemical companies profits up		Nov	12	21	Nine-month sales and profits	N	Dec	10	28	1 Keeping pace with population: "Statistics of Income" for '65 from IRS (charts & table)		Aug	16	35
Capital expansion: Spending spree in '70 - 16th McGraw-Hill Dept. of Economics fall spending survey		Nov	5	19	ICI/ANZ boosts net profits 15%	N	Dec	24	32	2 Struggling for profit: '65 "Statistics of Income for Corporations" (table)		Aug	16	36
Capital spending boom slowdown? Reserve Board survey of '70 spending plans by the nation's 200 largest corporations		Aug	30	15	Interest rates have reached their peak	N	Sept	20	47	3 Building bigger and better: U.S. Census (table)		Aug	16	37
Cassella's sales and profits in '68	N	July	12	33	IMC fighting to break even	N	Oct	18	31	U.S. input/output data - CPI markets: rapid growth, sweeping change (tables)		Dec	3	39
Chemical companies' new plant and equipment expenditures: Commerce Dept. SEC survey (table)		Dec	10	20	Prospects for '70 are dim	N	Nov	19	34	Waste-treatment plant appropriations may be increased	N	July	5	24
Chemical companies plan hefty 17% increase in '70 expenditures: McGraw-Hill survey		Sept	6	14	Is economy cooling? Most indicators show a downward trend; Fed may soon reverse its restraint policies (chart)		Aug	23	17	Weyerhaeuser Co. stock offering		July	12	13
Chemical firms don't see a recession, but gear for a slowdown		Sept	13	13	Jersey Standard looks to gas, metals and chemicals for new profits		Nov	19	42	Wyandotte Chemicals: BASF wants Wyandotte as a raw-materials base for U.S. expansion (charts)		Sept	6	28
Chemical makers continue to go to the money markets		July	12	18	Kaiser's third-quarter report	N	Oct	18	25					
Clayco raising money to complete purchase of Inmont's copying products business	N	Nov	5	14	Kearns, Henry, new president of Export-Import Bank, trying for more credit for U.S. exporters and on better terms	N	July	5	23					
Common Market experts see money pinch pushing European chemical companies into mergers	N	July	26	27	Louisiana losing its lure?		Nov	12	19					
Consumer spending see Consumer Spending					MCA serves as forum for new round of debate on economy; unemployment is chief topic		Oct	18	34					
Corporate information - SEC will require companies to break down their spending and earnings reports in greater detail and issue them more often	N	Oct	29	40	McCracken's evidence of economic slowdown looks persuasive		Oct	4	15					
Corporate profits may drop 8-12% next year	N	Nov	26	21	Mergers see also Industry Developments and individual companies in Company Index		Aug	23	18	Finland		Oct	29	57
Corporate securities rise (chart)		Aug	23	20	Monetary crisis coming? (chart)		Aug	23	18	Ethylene unit near Helsinki	R	Oct	29	57
Courtauld's sales and profits	N	Nov	26	36	Monetary restraint should be continued, says Brimmer of Federal Reserve System	N	Dec	10	13	Low-density PE plant at Swartback	R	Oct	29	57
Cyanamid's Silver: Expects '69 earnings of \$2-2.05/share and sales of about \$1.05 billion		Dec	17	26	Monsanto offering sinking-fund debentures	N	Sept	27	10	VCM and PVC plant at Porvoo	R	Sept	13	29
DOD see Defense Department					Monsanto will finance expansion by going to the money market	N	Sept	13	10	Finishing - Metal finishers are feeling the brunt of cadmium and nickel shortages	N	Aug	23	59
Diamond Shamrock proposed \$45-million offering of sinking-fund debentures registered	N	July	26	14	NICB's 17th annual marketing conference: Marketers to the fore		Nov	5	19	Fire Fighting - Chemical plant operators take college course in fire fighting		Sept	13	59
Dow Chemical's domestics in the "red"		July	12	19	NICB survey reports on tight money situation	N	Aug	9	11	Fire Retardants				
Dow forms a financial division, Ventures Investment & Finance Co.	R	Aug	23	22	NIH approving no new grants until fiscal '70 budget is settled by Congress	N	Nov	19	48	Fireproof resin is chief binding agent in a paint		July	12	27
Dow stock offering	N	July	5	9	New Jersey seeks 50% hike in world trade in new decade		Dec	24	25	PVC trees - Sales bells ring		Dec	24	67
Du Pont International places bond issue with major Swiss banks	N	Aug	30	20	Nixon takes inflation message to business, labor, and housewife		Oct	29	33	Fire Retardants see also Flame Retardants				
Du Pont's McCoy says an average of 8% year earnings growth over the next five years would be "reasonable and attainable"	N	Nov	12	14	Northern Natural Gas offering of sinking-fund debentures N Sept 27-10	N	Nov	5	14	Flame Retardants - Philadelphia refinery fires	N	Sept	13	10
Du Pont's R&D operations: a \$250 million budget; Lenher tells where the money goes		Aug	9	15	Paine, Webber report shows upward trend of sales, earnings and profit margins slackened sharply in the second quarter	N	Aug	23	14	Flame Retardants see also Fire Retardants				
Economy is cooling off	N	Nov	26	21	Parsons Co. goes public with a combination stock sale	N	Aug	2	10	Flavors				
Elcor Chemical having financial problems due to startup troubles at Rock House, Tex., plant	N	Oct	29	25	Petrochim show a net loss of \$1.15 million in '68	N	July	5	35	Ban on sweetener sours flavor outlook too (table)		Dec	5	16
Esso's French affiliate will likely show a net loss for '69	N	Dec	17	32	Plant and equipment expenditures: Commerce Dept. survey (table)		Sept	13	15	Chinese are in a stew over MSG		Nov	10	19
Ethyl Corp.: Putting new push into Ethyl - report Anthony J. Piombino (charts & table)		Aug	23	47	Plant sites '69 report. J.M. Winton (charts & tables)		Oct	29	59	IMC's Accent may be banned	N	Nov	19	34
Europe and Japan build and buy chemical plants in the U.S.		Nov	5	25	Profit margins of U.S. corporations are narrowing: First National City Bank study covering returns of 1,155 U.S. corporations	N	Nov	12	13	Liquid carbon dioxide as solvent for extracting flavor and aroma components from fruits and fruit juices	N	July	5	44
Europe's chemical giants set for home, overseas investment drive - report (charts & tables)		Dec	10	33	Profit outlook: No cause for cheer - Business Benchmarks		July	5	52	Flors				
European borrowing by U.S. companies up		Dec	10	36	Profit preview: they like what they see - letter		July	19	19	Floor finish	C	Sept	20	104
European profits rise: German chemical companies set pace in profitability (table)		Oct	11	26	Sales and earnings		Aug	23	5	Radiation Machinery's nuclear irradiator onstream at Hanover, N.J., plant to produce irradiated wood/plastic parquet flooring	N	Aug	9	33
Federal Reserve Board moves to further tighten money		July	12	18	First-half '69 earnings: plenty of pluses (tables)		Aug	2	12	Synthetic turf: legal scrimmage involves Monsanto and American Biltrite		Aug	30	36
Footc Minerals' nine-month net down, sales up	N	Dec	17	17	First-half '69: in step with the trend (table)		Aug	30	5	Fluoroboric Acid - Prices	N	Aug	2	28
Foreign investment		Sept	27	17	Correction - letter		Aug	16	38	Fluorides				
Easing '70 foreign spending curbs		Aug	9	16	- letter		Sept	27	16	Alcoa will build Florida chemicals plant in central Florida	N	Oct	18	25
Foreign spending by U.S. companies up again		Oct	4	16	First-half gains continue		Oct	29	28	Inorganic fluorides	C	Nov	19	97
Foreign spending going up - Dept. of Commerce survey (chart)		Oct	18	8	Second quarter: "Basics" bounce back (table)		Nov	5	18	Fluorocarbons				
- letter					Second-quarter earnings setbacks coming? (tables)		Dec	3	15	Chemicals give leather new glamor		Aug	23	67
Nixon Administration offers token easing of foreign investment controls	N	Dec	24	31	More net setbacks: third-quarter and nine-month financial results (table)		Dec	24	22	Du Pont's fluorocarbon elastomer		Sept	20	117
U.S. investments in Bolivia getting close government scrutiny	N	Oct	18	65	Fiscal year: "Off-calendars": it was a pretty good year (table)		Dec	24	22	Fluorocarbon-lined equipment	C	Aug	2	35
Franc devaluation: Will devaluation help?		Aug	16	39	Third quarter profit picture is bleak - SEC-FTC Quarterly Financial Report for Manufacturing Corps (table)		Sept	20	39	Japanese plant planned	R	Nov	19	120
Funds for waste-treatment plants - Clear, cool water: Congress says "Now" (table)		Dec	17	20	Sales growth declining? - Commerce Dept. survey (chart)		Nov	26	35	Foam				
German mark revaluation: German chemical companies figure it will only hike their cost of doing business 5%		Nov	5	19	SEC proposal to require a division-by-division breakdown of corporate earnings will be delayed	N	Nov	26	35	BASF Canada's Laval, Montreal, complex ground-breaking	N	Sept	20	48
Germany: Inflation is troubling German chemical companies - EPCA meeting N Goodrich's public offering of \$100 million of sinking-fund debentures	N	Oct	11	34	Shell's chemical sales hit \$1.1 billion with 10-11% growth prospect		Nov	19	39	Ceramic foam - Dow obtains rights to Celas Corp.'s technology	N	Dec	10	68
Grace zeroes in on the consumer - report Meyer Lurie (tables & charts)		Sept	13	30	Solvay's sales and earnings	N	Oct	29	49	Dodge uses thin urethane foam protective cover over an uncrumpled bumper		Sept	6	13
Great Lakes Chemical's distribution of sales (table)		Nov	19	62	Standard Oil Indiana inviting lenders of its common in exchange for shares of Standard N. Jersey	N	Nov	26	22	Liquid urethane foam systems prices	N	Sept	27	44
					Stepan Chemical's third-quarter	N	Oct	18	25	Low-density nylon foam for water safety and flotation products being test marketed in Florida	N	Aug	30	40
					Stock outlook: cloudy (table)		Dec	17	23	Oil-in liquid urethane foam system, Polysystems, products prices	N	Oct	4	38
					Stocks: still in dog house (charts & table)		Aug	30	12	Oil's urethane foam run under materials plant in Upper Macungie, Pa.	R	Aug	23	22
					Sumitomo's sales in the first half '69	N	Aug	23	28	Toyco Rayon seeking government approval of a patent agreement with Dow for production of PP continuous-sheet foam	N	Sept	6	24
					Syntex Corp. will distribute shares of Alza Corp.	N	Dec	17	18					
					Tax-free status of municipal bonds being eyed again	N	July	19	18					

Upjohn, an old-line pharmaceutical firm, makes it big in urethanes (table).....	Dec	3	29	Proposed acquisition held up by government.....	N	Dec	24	32	Con Gas starts up a large cryogenic plant to separate natural gas liquids at Hastings, W.Va.	Nov	12	50									
Upjohn's rigid urethane foam insulation wins Class A rating for spread-of-flame resistance.....	N	Nov	12	38	Chlorine plant at Lavera will use Hooker diaphragm cells.....	N	Nov	26	133	Dual-fuel auto engine - gasoline or natural gas - will undergo government tests.....	N	Dec	17	69							
Food					Ethylene plant of Soc. Chimique des Charbonnages expansion.....	R	Dec	1	24	Fueling cars of the future.....	N	Sept	27	53							
Controlled oxygen atmosphere for food preservation.....	July	26	28	Europe and Japan build and buy chemical plants in the U.S.	Nov	5	25	Europe's chemical giants set for home, overseas investment drive - report (charts & tables).....	Dec	10	42	Multifunctional gasoline additive.....	N	Nov	12	43					
Device for extracting protein from common jungle weeds.....	Sept	20	115	Franc devaluation: Will devaluation help? High-density PE plant at Gonfreville.....	R	Oct	29	56	Osaka Petrochemical will add pyrolysis gasoline hydrogen plant at Sakai installation.....	R	Sept	13	29	What would it cost to reduce or eliminate lead in gasoline? - views from UOP and Ethyl Corp.....	N	Dec	24	71			
Drive to get perishable foods off grocery shelves when they become outdated.....	N	Nov	26	35	Le Havre and Marseilles-Fos slated for face lifting and industry buildup.....	Dec	24	26	Generators												
Dureya: first commercial product based on high-lysine corn being test marketed in Cali, Colombia.....	N	Aug	2	39	Mergers have government support.....	N	July	26	27	Cesium oxide engines for generating electricity in magnetohydrodynamics (MHD) or thermionic-converter systems.....	N	Oct	29	120	Coal, not nuclear fuel, proposed as 3-mill power source (table).....	Oct	4	26			
Fish protein concentrate stacks up as best answer to protein famine.....	Dec	17	61	Naphtachimie's olefins expansion at Lavera complex near Marseilles.....	R	Aug	16	56	EGD: coatings are the first commercial application for electrogasdynamics system dubbed Electradyne.....	N	Sept	6	47	Function generator.....	C	July	26	57			
General Foods nutrition research stepped up; consolidating existing programs in a new Center for Applied Nutrition.....	N	July	19	52	Nation's two biggest labor unions reject an appeal by Pres. Pompidou to avoid strikes in the interest of economic recovery.....	N	Oct	11	34	Laser generator developed in France: step toward control of nuclear fusion.....	N	Sept	27	57	Germany						
Liquid whey now being discharged as waste by the dairy industry may be converted into a high-protein food supplement.....	N	Nov	12	27	Protein concentrate biomass from hydrocarbons plant planned at Cap Lavera, R	Dec	3	24	Aniline dye antitrust charges see Antitrust												
Nutrition conference clashes over 'GRAS' charges.....	Dec	10	19	Rhone-Poulenc: Acquisitions strengthen European position.....	July	19	22	Rhone-Poulenc buys 25% interest in Soc. Roquette Freres.....	N	Dec	24	32	Ashland plans carbon black plant at Speyer, West Germany.....	R	Dec	17	40				
Protein concentrates made from petroleum: putting "petro-protein" on the table (table).....	Aug	2	41	Rhone-Poulenc plans para-xylene plant at Gonfreville.....	R	Dec	3	23	Saint Gobain and Pont-a-Mousson merger.....	N	Aug	2	20	BASF investing \$1 billion in new plants and expansions.....	N	July	5	35			
Protein from cellulose waste products.....	Nov	12	49	Soc. Lorraine de Polyolefines plans low-density PE plant at Carling.....	R	Aug	9	25	SNPA plans three plants at Gonfreville.....	Nov	12	29	BASF plans Rhine site for petrochemical intermediates units.....	R	Aug	16	57				
Space exploration will need practical way of regenerating food from metabolic wastes.....	Sept	20	115	Technip looking for an Italian partner.....	N	Aug	16	101	Total-Chemie will build aromatics plant at Gonfreville.....	N	Sept	27	24	BASF urea plant at Ludwigshafen.....	R	Dec	17	40			
Food Additives					Freight Rates				increased 54.6%.....	N	Nov	5	24	Bayer, BASF sales up.....	N	Aug	9	26			
Ban on sweetener sour flavor outlook too (table).....	Nov	5	16	Across-the-board 6% increase.....	N	Nov	26	120	Bayer expects worldwide sales to increase.....	N	Nov	5	24	Bayer's unit at Dormagen to produce chlorine.....	R	Oct	11	36			
Cyclamates ban: last week's developments Food antioxidant.....	Dec	24	54	Another round of increases is coming.....	N	Oct	18	57	Bayer will seek \$75 million in the international money market to cover financial requirements of affiliated Bayer Group N	Nov	5	14	Chlorine-caustic solvents complex at Stade planned by Dow.....	N	Oct	29	26				
Monosodium glutamate in baby foods controversy simmering.....	N	Aug	30	19	Canadian freight rates are shaping up as a new threat to polish industry.....	N	Dec	3	36	East Germany - Five Eastern European nations have combined to strengthen their chemical industries.....	N	Aug	23	28	Ethylene venture of BASF and Royal Dutch Shell, Rheinische Oelfinwerke, launching expansion program.....	R	Oct	29	57		
Nutrition conference clashes over 'GRAS' charges.....	Dec	10	19	ICC grants Midwest Motor Freight Bureau 6% blanket increase in freight rates.....	N	Sept	13	54	Mixing rule bill for barge lines buried by House Rules Committee.....	N	Nov	19	48	Huels' new plants and expansions planned for next three years.....	N	Aug	30	32			
Safe, sure! - under what conditions? - Viewpoint.....	Nov	12	5	Oil refiners face challenge of designing a fuel for future autos.....	Sept	27	53	Huels' new plants and expansions planned for next three years.....	N	Aug	30	32	ICI's nylon and polyester plant at Offenbach.....	N	Oct	4	20				
Food & Drug Administration					Plant sites '69 report: J.M. Winton (charts & tables).....	Oct	29	59	Uranium See Uranium				Inflation is troubling chemical companies - EPCA meeting.....	N	Oct	11	34				
Ban on sweetener sour flavor outlook too (table).....	Nov	5	16	Oil refiners face challenge of designing a fuel for future autos.....	Sept	27	53	Huels' new plants and expansions planned for next three years.....	N	Aug	30	32	ICI's nylon and polyester plant at Offenbach.....	N	Oct	4	20				
Controversy of MSG use in baby foods simmering.....	N	Aug	30	19	Plant sites '69 report: J.M. Winton (charts & tables).....	Oct	29	59	Uranium See Uranium				Inflation is troubling chemical companies - EPCA meeting.....	N	Oct	11	34				
Cyclamates - Can PMA get FDA to drop ban?.....	Dec	17	24	Trip-leased railroad cars used for storage run up chemical makers' costs.....	July	19	41	Frye, Alva - Inmont's Vice-President: Back to the farm in company drive for diversification.....	Nov	5	48	Fuel									
Edwards, Charles C. new head: Can he cure FDA's many ailments?.....	Dec	24	24	Frye, Alva - Inmont's Vice-President: Back to the farm in company drive for diversification.....	Nov	5	48	Fuel				Dual-fuel auto engine - gasoline or natural gas - will undergo government tests.....	N	Dec	17	69					
Enzyme detergents may be the next target of federal consumer safety agencies.....	Dec	10	54	NAS: give chemical companies top priority on fossil fuel use.....	Nov	26	28	Nuclear power may replace chemical power in space exploration rockets.....	N	Aug	16	47	NAS: give chemical companies top priority on fossil fuel use.....	Nov	26	28	Nuclear power may replace chemical power in space exploration rockets.....	N	Aug	16	47
H-E-W's Finch accuses FDA of making a public relations blunder in the handling of its research in the possible danger of cyclamates in artificial sweeteners.....	Oct	18	31	Oil refiners face challenge of designing a fuel for future autos.....	Sept	27	53	Huels' new plants and expansions planned for next three years.....	N	Aug	30	32	ICI's nylon and polyester plant at Offenbach.....	N	Oct	4	20				
Moves to take eight combination diuretic drugs off the market.....	N	Sept	20	47	Plant sites '69 report: J.M. Winton (charts & tables).....	Oct	29	59	Uranium See Uranium				Inflation is troubling chemical companies - EPCA meeting.....	N	Oct	11	34				
NAS to review all scientific data on monosodium glutamate's effect on nerve cells.....	N	Oct	11	33	Uranium See Uranium				Inflation is troubling chemical companies - EPCA meeting.....	N	Oct	11	34	Japanese-German joint venture to produce cosmetics.....	R	Dec	24	39			
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Ouster of Herbert Ley, Jr., seen as the administration's first step in the shake-up of the agency; Charles Edwards named successor.....	N	Dec	17	17	Plant sites '69 report: J.M. Winton (charts & tables).....	Oct	29	59	Uranium See Uranium				Inflation is troubling chemical companies - EPCA meeting.....	N	Oct	11	34				
PMA: Drug makers want FDA's regulatory power streamlined.....	Oct	4	16	Oil refiners face challenge of designing a fuel for future autos.....	Sept	27	53	Huels' new plants and expansions planned for next three years.....	N	Aug	30	32	ICI's nylon and polyester plant at Offenbach.....	N	Oct	4	20				
PMA sues to block FDA from enforcing a new regulation enlarging its authority to ban a drug.....	N	Nov	12	27	Plant sites '69 report: J.M. Winton (charts & tables).....	Oct	29	59	Uranium See Uranium				Inflation is troubling chemical companies - EPCA meeting.....	N	Oct	11	34				
Regulations describing scientific criteria for determining the acceptability of medical evidence of a drug's effectiveness issued.....	N	Sept	27	23	Uranium See Uranium				Inflation is troubling chemical companies - EPCA meeting.....	N	Oct	11	34	Japanese-German joint venture to produce cosmetics.....	R	Dec	24	39			
Revised labeling regulations for oral contraceptives expected.....	N	Nov	12	27	Plant sites '69 report: J.M. Winton (charts & tables).....	Oct	29	59	Uranium See Uranium				Inflation is troubling chemical companies - EPCA meeting.....	N	Oct	11	34				
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Special committee on oral contraceptives concludes that "the pill" should remain on the market; closer watch on side effects called for.....	Sept	13	16	Plant sites '69 report: J.M. Winton (charts & tables).....	Oct	29	59	Uranium See Uranium				Inflation is troubling chemical companies - EPCA meeting.....	N	Oct	11	34					
Upjohn and Merck ordered to recall and re-label products containing the antibiotic novobiocin.....	N	July	26	14	Uranium See Uranium				Inflation is troubling chemical companies - EPCA meeting.....	N	Oct	11	34	Japanese-German joint venture to produce cosmetics.....	R	Dec	24	39			
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BASF and Heinrich Koppers form new team in technology.....	N	Nov	12	43	Air Products & Chemicals' industrial gas plant at Cleveland expansion.....	R	Sept	13	18	Air Products will double industrial gas capacity at Burns Harbor, Ind.....	N	July	5	10	Natural gas for West Germany.....	N	Sept	20	48		
Borden solidifying its position as No. 1 U.S. producer and beefing up methanol capacity.....	Aug	23	19	Industrial gases' outlook: new processing, pollution-control uses bolster outlook (chart).....	Sept	27	39	Phrix Werke ups nylon output.....	R	Aug	16	56	Polypropylene plant at Wesseling, West Germany.....	R	July	5	34				
Celanese formaldehyde capacity expansion at Bishop, Tex.....	Aug	9	11	Japanese project to develop a gas centrifuge for enrichment of propane.....	N	Aug	23	73	Raw material and construction costs are mushrooming.....	N	Oct	11	34	Rhine River fish kill blamed on barge's spillage of endosulfan insecticide.....	July	5	18				
Monsanto's capacity at Springfield, Mass., will be upped.....	N	Nov	5	13	Japanese town gas process, called MRG, to produce a gas made up of methane, hydrogen and carbon dioxide.....	N	Nov	19	89	Shell's xylene plant at Gordorf refinery. R	Aug	16	57	Soviets negotiate natural gas-pipeline deal.....	Oct	29	50				
Processing licensing competition catalysts: key to four processes.....	Nov	19	79	Phosgene shipping from Army Arsenal halted by USDOT Sept 20-30.....	Sept	27	14	Pipelines see Piping				Three firms will participate in the uranium enrichment centrifuge project.....	N	Dec	10	68					
Reichhold plans formaldehyde and synthetic resins at Albany, Ore.....	R	Dec	10	22	Poison gas disposal will be according to NAS recommendations.....	N	July	12	25	Propane futures trading: COMEX will offer a new contract.....	N	Aug	2	27	West German chemical industry boom.....	N	July	19	45		
Forming - Low-temperature, explosion-forming method.....	N	Sept	27	58	Gas see also Natural Gas and specific gases				Gasoline				West German chemical giants continue to lead the European profitability parade (table).....	Oct	11	26					
Fractionation - Con Gas starts up a large cryogenic plant to separate natural gas liquids at Hastings, W.Va.....	Nov	12	50	California Standard's new additive that shapes up as the best single answer to the problem of pollution from autos called F-310.....	N	Dec	24	72	West German 4% export tax was temporarily shelved.....	N	Oct	18	65	West Germany and Poland resume trade talks on a '70 agreement.....	R	Dec	17	26			
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U.S. trade picture isn't likely to get better.....	N Sept 6 23	Celanese's oil and gas business will be sold to Union Pacific RR.....	N Sept 6 9	U.S. Industries acquires Poly-Tech Corp.....	R Aug 30 16
U.S. trade policy has low priority at the White House.....	Sept 13 23	Celanese will sell 50% interest in Konam N.V. to KZO.....	N Oct 4 15	U.S. Smelting and Federal Pacific Electric merger plans terminated.....	R Aug 16 42
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Polyester fiber capacity boost.....	N Sept 6 24	Dart Industries will acquire Nappe-Smith Mfg.....	N Dec 24 18	Royal Dutch/Shell drilling for magnesium and potassium in north of Holland's Groningen province.....	N Oct 29 49
Indonesia - Japanese chemical producers plan plants.....	Sept 27 27	DeSoto will purchase Kerns Furniture; acquires Creative Interiors.....	R Aug 30 16	Russian chemical industry output up: snags remain (chart).....	Dec 17 35
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Air Products & Chemicals seek better balance: 50% chemicals.....	Aug 40 41	Firestone tentative agreement to acquire MCA.....	N July 26 14	Spain: Minister Lopez de Letona takes over chemical push.....	Nov 12 29
An inventory of the year that was - Viewpoint.....	Dec 24 5	Acquisition terms altered.....	N Aug 30 10	Sumitomo plans buildup.....	Nov 19 118
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Europe's mergers have government support.....	N July 26 27	Gulf Resources & Chemical will enter into the coal business; acquisition of C&K Coal under study.....	N Nov 19 34	Information Retrieval	
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EEC experts see money pinch pushing European chemical companies into mergers.....	N July 26 27	ICI's Butakon division sold to Standard Brands, Inc.....	N Aug 9 24	National Engineering Information Conference: no evidence of critical inefficiency in the nation's scientific and technical communications.....	July 5 45
European governments are focusing more attention on acquisitions and mergers that may be harmful to free competition.....	N Dec 24 32	Kimberly-Clark wants to acquire Atlantic Lumber Co.....	N Dec 17 18	Photographic glass for information storage and display devices.....	Sept 20 117
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Houston Natural Gas weighs expansion of chemical ventures.....	Oct 18 32	3M plans to acquire Dart Industries' Riker Labs.....	R July 19 26	User tax for waterways?.....	Oct 18 62
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ICI fighting against a commercial carbon fiber plant in the U.K.....	N Nov 19 90	Merger in process of being wrapped up.....	N Nov 12 14	California will crack down on use of two pesticides.....	N July 5 10
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Jersey Standard looks to gas, metals and chemicals for new profits.....	Nov 19 42	Monsanto and Fisher Governor merger completed.....	R Aug 23 22	- letter.....	Aug 9 5
Mafia link with chemical industry turns up: mobster-run sales agency pressured A&P to sell detergent.....	July 5 13	National Lead acquires Jonathan Mfg. National Lead to acquire McCullough Tool.....	R Aug 23 22	Chlorinated insecticides use around the world to be reduced.....	N Dec 24 72
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Mergers & Acquisitions		Olin Corp. and Fine Organic merger.....	N Sept 27 9	DDT - USDA suspends use of DDT during review of its effect.....	July 19 24
Abbott Labs. completes acquisition of Murine.....	R Dec 10 22	Phelps Dodge acquires Western Nuclear.....	N Sept 6 10	DDT: eight U.S. makers slapped with whopping \$30-billion suit.....	Oct 29 31
Alaska Barite bought by Inlet Oil and Apco Oil.....	R Sept 20 43	Rohm & Haas acquires Consolidated Biomedical Labs. R Nov 5-21.....	R Dec 17 26	DDT: the need for postponing a general ban on it made by Ray Smith.....	N July 12 44
Alcolac Chemical acquires Western Labs.....	N Sept 6 10	Saint Gobain and Pont-a-Mousson merger.....	N Aug 2 20	- letter.....	Aug 9 5
AKU and KZO agree to combine N July 19-45, N July 26-27.....	R Sept 20 43	St. Joseph Lead and Hanna Mining merger plans terminated.....	R Aug 16 42	DDT makers must look ahead - Viewpoint - letters Aug 9-5.....	Sept 13 4
AKZO obtains a controlling interest in Astral.....	R Nov 12 32	Slick Corp. to acquire Gre Southern Press & Fiber Media Co.....	R Sept 20 43	DDT's partial ban now in effect; complete removal is set for '71.....	Dec 3 15
Proposed acquisition held up by French government.....	N Dec 24 32	Sohio merger to BP's American operations N Sept 6-10, N Oct 11-22, Nov 5-5, N Nov 26-21.....	N Dec 3 10	Dieldrin is getting a bad press again.....	Sept 20 124
American Cyanamid acquires Sargent Calcium.....	N July 26 13	Merger okayed.....	N Dec 17 17	Ethers look good in early tests for insect control.....	N Aug 9 34
American Cyanamid plans to buy Midland-Ross' IRC Fiber Div.....	N Oct 29 26	Spain's biggest corporate marriage: UEE merges with Rio Tinto July 19-48.....	N July 26 27	FMC's products particularly effective on flying insects.....	Dec 17 82
Ashland Oil will acquire 46.8% stock interest in Canadian Gridoil.....	Oct 11 28	Staley, A.E. Mfg. to acquire Charlotte Chemicals Lab.....	R Aug 16 42	Mobil Chemical's plant at Mt. Pleasant, Tenn., to produce Mocap pesticide.....	Oct 11 28
Ayrshire Collieries and Amax merger becomes effective Oct. 31.....	R Oct 29 35	Sun Chemical's takeover of Chemetron: rebuffed but still wooing.....	Sept 13 16	Rhine River fish kill blamed on barge's spillage of endosulfan insecticide.....	July 5 18
BASF acquires a 50% interest in Elastomer AG.....	N July 5 35	Susquehanna violated federal securities law following its successful tender offer for 38% of PASCO's common stock rules SEC examiner.....	N Aug 30 9	Officials still unable to explain the source.....	N July 19 52
BASF wants Wyandotte as a raw materials base for U.S. expansion (charts).....	Sept 4 28			Toxic pesticides: three federal agencies have filed applications to use some of them in the vicinity of the nation's capital.....	N Aug 9 21
BASF-Wyandotte Chemicals merger talks N Aug 16-34, N Aug 23-28, N Sept 27-9, N Oct 11-22.....	N Nov 12 13				
Baird Chemical Industries acquires Lonza Ltd.....	N Oct 4 10				

USDA admits it failed to enforce decision to require a new safety warning on labels of Shell's No-Pest strips	N	July	5	23
USDA resumes its program of spraying airports with pesticides	N	Nov	5	20
USDA's Pesticides Regulation Div. described as "an almost incredible failure"	N	Dec	3	19
Institute of Electrical & Electronics Engineers - Tape-recorded workshop on computer process control languages, IPL-69	Dec	3	51	
Institute of Gas Technology - Fleet testing of vehicles fueled by natural gas	Dec	17	23	
Institute of Physical & Chemical Research - Gaseous diffusion experiments	N	July	19	51
Instrument Society of America - Meeting seeks new ways to simplify control panels as complex processes add more instruments to central control rooms	Nov	5	33	
Instruments				
Analyzer-controllers	C	Sept	20	101
The dynamic equipment engineering industry - letters Aug 16-5	Sept	20	16	
Electronic gas checker	C	Aug	2	35
Elemental analyzer	C	Dec	3	43
Fluoride ion analyzer	C	Nov	19	97
Fume detector	C	Nov	19	101
Gas analyzer	C	Sept	20	101
ISA meeting seeks new ways to simplify control panels as complex processes add more instruments to central control rooms	Nov	5	33	
Ion-exchange electrodes for potassium detection	N	Aug	23	74
Liquid level indicator	C	Sept	20	101
Oxygen analyzer	C	Dec	24	54
Process-control electrodes keep eye on ions	July	26	49	
Stack gas monitors: how to keep watch on what goes up the stack (table)	Aug	2	31	
Thickness monitor	C	Sept	20	101
Trace-impurity analyzer	C	Nov	19	101
Ultrasonic Solution Analyzer to measure solids contents of solutions and suspensions	N	July	5	44
Ultraviolet fire detector	C	Aug	23	79
Water-quality monitors	C	Aug	23	79
Insulation - Upjohn's rigid urethane foam insulation wins Class A rating for spread-of-flame resistance	N	Nov	12	38
Interferon				
First solid evidence that poly I:C induces interferon production in humans presented by M. Hilleman of Merck Institute	N	Dec	24	72
New preventive for cold-and-mouth disease stimulates interferon production by injecting RNA	N	Dec	3	45
Intermediates				
Alky phosphorus intermediates	C	Nov	19	97
Aminoethylethanolamine prices	N	Aug	16	88
Butyl benzoate	C	Sept	20	100
Celane increases TMP capacity at Bishop, Tex. N Sept 20-34	R	Sept	20	43
Cyclic olefins	C	Aug	2	35
Foric acid and 3-methyl-2-phenylbutyric acid	C	Dec	3	43
Halogen nitroaromatics	C	Aug	16	110
Lepidine, derivatives	C	Dec	24	54
Organophosphines	C	Aug	16	110
Prices	N	Oct	29	106
International Commission on Glass - Annual meeting: Glaverbel reveals glass that is as strong as steel by VHR process	N	Sept	13	68
International Conference on Marine Pollution - Oil spills: who has to pay?	Nov	26	28	
The International New Products Center - Patexpo '69: a lot of unused but potentially significant technology will be exhibited for sale or license at a new kind of show this fall	N	Aug	2	40
Interstate Commerce Commission Reorganization plan	N	Aug	2	19
Inventories				
Copper: increased supplies for commercial uses due next year	N	Nov	26	120
Fiber inventories rise	Oct	11	28	
How the CPI reads the indicators	Nov	12	16	
Sales growth declining? - Commerce Dept. survey (chart)	Sept	20	39	
Sulfur: What next for the big sulfur producers?	July	26	17	
Sulfur exports are helping to keep the domestic inventories in line	N	Nov	5	29
Sulfur inventories	N	July	19	37
Ion Exchange				
Electrodes for potassium detection	N	Aug	23	74
Ion exchange may pay off in soybean processing	N	Oct	18	72
Ions - Process-control electrodes keep eye on ions	July	26	49	
Iran				
Iran - HyL plant for direct reduction of iron ore possible	Sept	6	48	
Petrochemical plants: almost \$300-million worth of projects (map)	Sept	20	139	
- letters	Oct	11	5	
Ireland				
Courtaulds plans polyester fiber plant at Carrickfergus	N	July	26	14
Northern Ireland's fiber industry escapes damage during riots	N	Aug	30	20
Iridium - Prices	N	Nov	12	38
Iran				
Iran - HyL plant for direct reduction of iron ore possible	N	Sept	6	48
Jersey Standard's direct iron ore reduction process: what's in store?	N	Sept	13	67
Marconaflo technique in moving iron ore from Peru to the U.S.	N	Aug	2	39
Micro "magnetic bubbles" may be the answer in building low-cost, compact computers and telephone switching systems	N	Aug	16	102
Irradiation				
Nuclear radiation applying for job in enzyme processing	N	Aug	23	74
RMC nuclear irradiator onstream at Hanover, N.J., plant to produce irradiated wood/plastic parquet flooring	N	Aug	9	33
Isocyanates				
Bayer to build plant at Newcastle, Australia	N	Oct	29	49
Experimental isocyanate E-320 prices	N	Nov	26	120
Polymeric isocyanate prices	N	July	26	37
Prices	N	Aug	2	28
Upjohn plans isocyanates plant adjacent to its polyurethane chemicals complex at La Porte, Tex.	N	Nov	5	13
Isoprene - Rhone-Poulenc's plant near Freeport, Tex.	N	Oct	18	66
Israel				
Petrochemical complex near Tel Aviv	Oct	4	23	
Phosphate mining project gets green light	N	Dec	3	20
Potash expansion	R	Dec	24	39
Israel's Institute for Fibres & Forest Products Research - Lewin, M. aids J.P. Stevens during 8-month working visit to textile lab	Nov	12	49	
Italy				
ANIC will double synthetic elastomer capacity	R	Dec	3	23
Caprolactam plant at Manfredonia	N	Oct	4	20
Chemical industry labor costs will increase	N	Dec	17	32
DDT use curtailed	N	Nov	26	134
ENI electrochemical complex in Calabria	R	Dec	17	40
Europe's chemical giants set for home, overseas investment drive - report (charts & tables)	Dec	10	44	
Fibers complex near Salerno	N	Sept	6	24
Imports from the U.S.	N	Aug	23	28
Mobil expands Naples petrochemical plant	R	Dec	24	39
Montecatini-Edison expands chemical operations in southern Italy	Oct	4	23	
Neofil's polypropylene fiber plant at Terni	N	Oct	18	66
Orinoco Chimica plans fertilizer complex at Potenza	N	July	12	33
Plant to synthesize magnesium oxide from sea water to be built at Syracuse, Sicily	N	Nov	19	113
PVC unit planned by Societa Chimica Ravenna	R	July	5	34
SARP plans \$1-billion chemical and petrochemical complex for Sicily	N	Nov	12	28
Strikes: Prelude to European labor strife? Continue to plague the chemical industry	N	Oct	11-34	
Union calls for periodic 48-hour strikes	N	Nov	26	36
Labor pot keeps boiling	N	Nov	12	28
Technip looking for an Italian partner	N	Dec	24	32
	N	Aug	16	101
Japan				
Acrylonitrile output upped (table)	July	19	47	
Aluminum plant planned by Mitsubishi Chemical	Sept	27	27	
Ammonia plant in Chiba	R	Nov	12	32
Ammonia units planned by Ube Ammonia Industry and Japan Gas-Chemical	R	Aug	23	35
Butadiene extraction plant	R	Sept	13	29
Butadiene joint ventures	R	Aug	23	35
Chemical exports expected to pass the \$1-billion mark	N	July	19	45
Chemical makers are resisting naphtha suppliers' efforts to raise prices	N	Sept	6	34
Chemical producers plant plants in Southeast Asia, Indonesia	Sept	27	27	
Chloroprene rubber buildup	R	Aug	23	35
Ethylene oxide-ethylene glycol plant near Osaka	R	Nov	12	32
Ethylene plant for USSR using US technology N July 19-45	N	Aug	30	39
Europe and Japan build and buy chemical plants in the U.S.	Nov	5	25	
Expansions: round-up of company plans	R	Nov	19	120
Fertilizer contract with China	N	July	19	45
Fertilizer exports boost to meet Red China's needs	Nov	19	117	
Fine-particle PE made by nuclear radiation begins test phase	N	Dec	17	70
German-Japanese joint venture to produce cosmetics	R	Dec	24	39
Glass fibers buildup	Sept	27	27	
Hercules-Teijin joint venture to make DMT in Japan	R	Aug	23	35
Industrial group considering uranium enrichment in Japan	N	July	19	51
New plants, expansions	R	Dec	17	40
Nippon Carbide and Mitsubishi plan melamine plant at Kashima	R	Aug	9	25
PPG and Asahi studying feasibility of a joint glass-fiber products venture	R	Nov	5	21
Paraffin joint venture by Manuzen Oil and Kanegafuchi planned	R	July	5	34
Petrochemicals: Japan builds a \$500-million project - its biggest	July	5	34	
Petrochemical producers' plans	N	Dec	3	20
Polyethylene oxide being marketed	N	Oct	18	72
PVC capacity up	R	Aug	23	35
Project to develop a gas centrifuge for enrichment of propane	N	Aug	23	73
Pyrolysis gasoline hydrogen plant at Sakai installation	R	Sept	13	29
Resistance to U.S. demands for fewer textile imports appears to be crumbling	N	Nov	5	23
Russian agreement for construction of a 900 mile gas pipeline connecting Okha with Hokkaido	N	Sept	20	48
Russians negotiate natural gas-pipeline deal	Oct	29	50	
Sanyo Petrochemical's second ethylene plant awa is government approval	R	Nov	19	44
Showa Denko plans plastics center	Sept	27	27	
Sumitomo plans buildup	Nov	19	118	
Teijin, Japan's biggest polyester producer, seeks oil in Libya	R	Aug	23	35
Teijin petrochemical buildup	R	Aug	23	35
Teijin plans polyester tube plant	R	Aug	9	25
Textiles: Another try for textile curbs; Japanese delegation will discuss a curb on textile exports to the U.S.	Aug	16	40	
Trade negotiations new approach	Nov	19	44	
Thiokol will team with two Japanese firms to build Japan's first polysulfide monomer plant	N	Dec	10	28
Toyo Rayon polypropylene plans	N	Sept	6	24
World's largest natural gas liquefaction plant on Borneo will use U.S. technology	N	Oct	4	47
Japanese Petrochemical Assn. - Chemical makers are resisting naphtha suppliers' efforts to raise prices	N	Sept	6	34
Java - Fertilizer plant at Tjirebon July 5-34	Sept	27	27	
Joint Conference on Prevention and Control of Oil Spills - Still no cure for spill ills: new idea at oil spill meeting; series of 'hovercraft' to contain oil in bubble barrier	Dec	24	23	
Joint Engineering Management Conference - Managing new engineers: Six prophecies for the 70's	Oct	29	133	
Kerosine				
Phillips-Imperial Petroleum expands plant in England	R	Oct	29	56
RP-1 used by Apollo 11	N	July	26	51
Korea				
Acrylonitrile plant at Ulsan, South Korea	N	Dec	17	40
Perlite joint venture	R	Nov	19	120
Kroft, Fred, Jr. - UC's Ferroalloys Div. new president: The club champ takes over division	Nov	26	154	
Labeling				
Drive to get perishable foods off grocery shelves when they become outdated	N	Nov	26	35
Rule requiring "proper" instructions for laundering and drycleaning on textile products proposed	N	Nov	19	75
Labeling, drugs see Drugs				
Labeling, law see Law				
Labor				
Argentine labor unrest despite a wage increase	N	Nov	12	28
Avison strike at polymer plant in New Castle, Del.	R	Oct	18	34
Chemical process companies' labor troubles are a certainty for next year; OCAW (and other unions) plan to ask for "unusually large wage increases" says Pres. Grosppron	N	Nov	19	33
CPI construction costs are sure to climb in Chicago area due to new contracts with building contractors	N	Dec	10	14
CPI construction costs at Cincinnati: Can labor costs be curbed? (chart)	Aug	16	99	
CPI employment rises	July	19	23	
Employment is up - and out of step?	Dec	17	23	
Falconbridge's strike settlement expected soon	N	Nov	26	119

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Maleic Anhydride BASF and Heinrich Koppers form new team in technology. N Nov 12 43 Petro-Tex will up capacity at Houston, Tex., plant. N Aug 23 13 Prices N July 5-31. N Dec 17 56 USS chemical buildup. N July 5 16	Maleic Hydrazide - U.S. district court in N.Y. bars Uniformal from enforcing its maleic hydrazide patent against Ansul N Nov 12 13	Management Acquisitions and mergers see Industry Developments and individual company names in Company Index	Air Products & Chemicals seeks better balance: 50% chemicals. Aug 40 41 Alcoa sets up environmental control division. R Dec 17 26 American Aniline Products' new president A. (Alvin) Lloyd Phillips: Managing by the Golden Rule. Aug 30 45 Ashland Oil corporate reshuffling: Senior V.P. Yancey becomes chief operating officer of the parent company and president of newly formed Ashland Petroleum Div.; Blazer continues as chairman of the board; O. Askins as president and chief executive officer; Wm. Ferguson new head of Ashland Chemical Div. N Nov 26 22 Blasius Industries' sales gains and growth based on new products and external expansion. Dec 17 25 Cabot Corp.'s new president and director, Robert A. Charpie: It was big news in Boston when a Cabot talked to a Charpie Calgon's new president, Ted Welton: Hoping to help Merck clean up. Aug 23 83 Camp Laboratories' president, G.C. Neumann: Seeking big opportunity in little firm. Sept 20 145 Carbide's Roger Hibbs: Nuclear's where the action is. Sept 13 73 Chemtron's Chemicals Group president, C.C. Candee: Reorganizer finds little time left for relaxing. Aug 9 14 Chemical companies' retirees launch new careers in teaching. Aug 40 43 Conoco restructuring of corporate divisions and realignment of executive responsibilities, including election of president and chief executive officer okayed. Aug 30 15 Ethyl Corp.: Putting new push into Ethyl - report Anthony J. Piombino (charts & table). Aug 23 47 Ettinger, M.B. ("Mac") new book "Standard Methods for the Medicoe Science Manager: Europe's merger-created firms' top problem: demolishing le directeur. Dec 24 77 GAF's Robert Myers is new vice president of R&D. Nov 19 128 Grace zeroes in on the consumer - report Meyer Lurie (tables, charts). Sept 13 30 Great Lakes Chemical: Trying harder pays off (charts). Nov 19 53 Hercules courts on New Enterprise Dept. for additional growth. Oct 29 32 Houston Natural Gas weighs expansion of chemical ventures. Oct 18 32 How to hire minorities. Sept 20 40 ICI America's new chairman and chief executive Wm. Duncan: In new U.S. job, Scotsman seeks new worlds to win. Dec 3 54 ICI's unique labor contract: making a new pitch for productivity. Aug 16 55 Inmont's Alva Frye: Back to the farm in company drive for diversification. Nov 5 48 Jersey Standard's new chiefs, Jamieson and Brisco plan to keep growing in chemical (P). Sept 6 53 M&T Chemical's new president H.E. Hirschland: "Nice guy" is winner at M&T. Aug 16 113 Managing new engineers - Six prophecies for the '70s. Oct 29 133 Millmaster's McGinley: From depression to prosperity in chemicals. Nov 12 56 Monsanto's Ernest Robson: Traveling man switches from selling to buying. Dec 10 80 Monsanto's Textiles Div. realigns its structure to put more emphasis on market orientation. Dec 17 26 Nalco reorganizes its corporate structure: 9% of top-management promotions in U.S. industry went to chemical executives in first-half '69. R Oct 29 35 Ocean Systems' new president and chairman, Roy E. Sweet: Ex-singer now ponders ocean floor. July 26 61 Occidental Petroleum's Tom Willers: He's gone west to coordinate a \$2-billion giant. Dec 17 86 Ott Chemical's James R. Eisner new chairman - A man who'll take a chance. July 12 38 Petro-Tex's president, James Lockwood: Tough taskmaster on top. July 5 49 Professional pitfalls - letter. July 26 5 Signal's Lee Daly: Charting a new course in plastics. Oct 18 109 Sun Chemical's takeover of Chemetron: rebuffed but still wooing. Sept 13 16 Sun Oil's top changes: R. Dunlop moves up to chairman, H.R. Sharbaugh, new president. N Dec 24 17 UC's Ferroalloys Div.'s new president, Fred Kroft, Jr.: The club champ takes over a new division. Nov 26 154	U.S. Borax's new president, Carl L. Randolph: A sailor drives the mule team U.S. data show chemical process companies. Oct 4 53 1 Keeping pace with population: "Statistics of Income" for '65 from IRS (charts & table). Aug 16 35 2 Struggling for profit: '65 "Statistics of Income for Corporations" (table). Aug 16 36 3 Building bigger and better: U.S. Census (table). Aug 16 37 Velsicol Chemical's new president, Robert Garrison: Ready to go global. Sept 27 63 Venture management: Chemical companies try new techniques to manage new ventures Whittaker's Arnold Miller of Materials Subgroup: Fervor for R&D mustn't sway my judgment on P&L. Dec 24 84 Wyandotte Chemicals: BASF wants Wyandotte as a raw-materials base for U.S. expansion (charts). Sept 6 28 Manganese - Economic assessment of the manganese at the bottom of Lake Michigan being undertaken. N Oct 4 48	Medical Developments Carbon or graphite composites may find use as implant materials in humans. N July 19 51 Rechargeable alkaline battery system that would be small enough and reliable enough to be implanted as a heart pacemaker. Oct 4 26 Thin, strong, unsupported silicone rubber membrane will permit the building of more compact heart and lung machines N Oct 29 119 Medical Developments see also Health	Melamine Nippon Carbide and Mitsubishi plan plant at Kashima. R Aug 9 25 Plants and processes - U.S. melamine makers adopt Dutch process to foil import threat (table). July 12 49	Membranes Reverse-osmosis and ultrafiltration moving out of the laboratory and into commercial use: Wide markets for thin membranes (chart). Aug 30 33 - letter. Nov 19 16 Thin, strong, unsupported silicone rubber membrane will permit the building of more compact heart and lung machines. N Oct 29 119 Viable solution - dynamically formed membranes - letter. July 12 8 Merck Institute of Therapeutic Research - First solid evidence that poly I:C induces interferon production in humans presented by M. Hilleman. N Dec 24 72	Metals Autocast Ti-22 racer built with weight-saving metals: significant for producers of titanium and aluminum. Oct 18 61 Mechanical alloying combines two well-known techniques for strengthening metals - dispersion hardening and precipitation hardening. Nov 12 50 Metal chemical prices. N July 19 37 Metallurgical products prices. N Dec 17 56 Mobile home production: Not so 'mobile', but going places (chart & table). Oct 18 29 Nonferrous metal prices. N Sept 13 53	Meters Conductivity meter. C Nov 19 101 Mass flowmeter. C July 5 41 Moisture meter. C Dec 3 43 Vortex shedding flowmeter keeps tabs on process pipelines' fluid pulse beat (diagram). Aug 16 107 "Vortex shedding" new type of flow-meter. N Aug 9 33 Methanesulfonates. C Dec 24 54	Methanol Borden solidifying its position as No. 1 U.S. formaldehyde producer and beefing up methanol capacity. Aug 23 19 Escambia plans to double capacity at Pensacola, Fla., plant. N Nov 5 14 Formaldehyde processing licensing competition - catalysts: key to four processes. Nov 19 79 G-P's Wilson discusses methanol capacity, prices at NAPM meeting. N Oct 18 58 Hercules' Plaquemine, La. plant starts production. N Sept 27 44 Markets will change drastically says Kinsella of Chem Systems. N Dec 24 57 Prices N Sept 6-33. N Sept 13 53	Methyl Chloride Ancon doubling capacity at Lake Charles. R Oct 18 34 Prices N Nov 19-75. N Nov 26 120 Methyl Chloroform - New processes, new antismog rules, give new life to old solvent (tables). Aug 9 30 Methyl Glucoside - C.P.C. International plant at Argo, Ill. R Dec 24 26	Mexico Authorities deny receiving a request for rulings on the proposed sales of Gulf Resources & Chemical's Mexican sulfur subsidiaries to Inversiones Azufreras. N Nov 26 27 BASF investment boosts. N Dec 10 28 Celanese, Nylon de Mexico and DSM joint venture to build first nylon feedstock plant. N Aug 2 20 Guanos goes south: builds fertilizer unit in Guatemala. Aug 30 32 Gulf Resources & Chemical's Allen charges Mexican government "may be thinking of confiscation" of sulfur properties. Nov 19 43 GRC's efforts to sell Mexican sulfur operations are stymied. N Dec 10 14 Hoechst expansion program. Oct 29 55 Petrochemical buildup. Sept 20 38 Proposal to nationalize chemical industry made by country's chemical workers union. N Nov 26 36 Michigan State University - Ammonia in the diet of cows can cut farmers' cost. N Aug 9 34 Michigan Technological University - Economic assessment of the manganese at the bottom of Lake Michigan being undertaken. N Oct 4 48
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Midwest Research Institute - Darnay, Arsen summarizes report "The role of packaging in solid waste management 1966 to 1976" (charts & table)	Oct	4	41	FDA asks the NAS to review all scientific data on MSG's effect on nerve cells	N	Oct	11	33	National Industrial Conference Board - Annual (17th) marketing conference: Marketers to the fore	Nov	5	19		
Military Applications				IMC's Accent may be banned	N	Nov	19	34						
Chemical-biological weapons R&D virtually halted	July	12	14	Nutrition conference clashes over "GRAS" charges	N	Dec	10	19	National Institutes of Health					
DOD's contract awards for munitions and weapons drops	Sept	6	23	Prices	N	Oct	4	37	Approving no new grants until its fiscal '70 budget is settled by Congress.	N	Nov.	19	48	
Impact of research on chemical-biological warfare agents on America's foreign and defense policies will come under scrutiny	N	July	5	23	Monosodium Methyl Arsonate - Prices	N	Sept	13	53	Excessive plant noises now cost U.S. industry about \$4 billion/year in lost time and workman's compensation payments	Dec	3	17	
NAS will study disposal of M55 rockets and M34 cluster bombs	N	July	12	25	Morocco - King Hassan renews his nation's claim to Spanish Sahara phosphate deposits	N	July	12	33	National Petroleum Refiners Assn. - Fuels and lubricants meeting: oil refiners face challenge of designing a fuel for future autos	Sept	27	53	
UN's report advocates a complete ban on chemical and biological weapons	July	12	14	Mothproofing compound	C	Dec	17	79	National Plant Food Institute - Proposed uniting of three fertilizer industry associations	R	Oct	18	34	
Military Applications see also Chemical Warfare, Defoliation Chemicals, Munitions, U.S. Army, U.S. Navy				Motors					National Science Foundation - Asian engineers and scientists have displaced Europeans as the largest group of professionals now entering the U.S. (table)	July	5	45		
Miller, Arnold - Whittaker's Materials Subgroup general manager: Fervor for R&D mustn't sway my judgment on P&L	Dec	24	84	A-C motors	C	Nov	19	100	National Waterways Conference, Inc. - User tax for waterways?	Oct	18	62		
Minerals Exploration				Electric clutch	C	July	5	41						
NASA's Earth Resources Research Data Facility will make data on earth resources collected by satellites available to the public	N	Aug	2	19	Electric motors prices	N	Nov	12	44	Natural Gas				
Nickel shortage forces up prices, spurs look for new sources (table)	Nov	5	31	High-torque motors	C	Nov	19	100	Algerian LNG due	July	5	29		
Ocean mining see Underwater Mining				Myers, Robert - A musician aims to give research a new beat	N	Nov	19	128	El Paso and Sonatrach sign contracts for importation of Algerian LNG into U.S. over a 25-year period	N	Oct	18	26	
Submarine tanker may haul oil and sulfur out of Canadian Arctic	Oct	29	96	- letter	Dec	10	5		Area rate pricing: ruling that could extend the area concept well beyond the Permian Basin and southern Louisiana	Oct	4	38		
Mining - High-strength plastics have enormous potential for use in mining and tunnel construction	N	Dec	17	31	Napalm - Dow loses out on napalm - will bid again	Nov	26	30	Argentina will offer its chemical industries cheap feedstock gas	R	Aug	9	25	
Mining see also Underwater Mining					Naphtha				Becoming a major energy source in Europe	Dec	10	22		
Minting of silver dollars and half-dollars; end is in sight; Nixon Administration asks for approval of legislation to mint cupro-nickel coins	N	Oct	11	33	Argentina will offer its chemical industries cheap feedstock gas	R	Aug	9	25	Bolivia: World Bank loan will cover half the cost of constructing pipeline to deliver Bolivian gas to Argentina's Gas del Estado	N	July	12	25
Mixers					Bahamas Oil Refining's Freeport refinery to be completed next spring	N	Aug	2	28	Argentina will assume guarantees to permit resumption of work on pipeline	Dec	24	39	
Lodge mixers for Squibb's new plant	Nov	19	107	Committee to study disposal of M55 rockets and M34 cluster bombs	N	July	12	25	Bolivian government orders Bolivian Gulf Oil to provide the country with free natural gas for domestic consumption for 10 years	N	Sept	13	24	
Slurry mixer	C	Nov	19	100	Hazardous materials transportation study	Sept	27	14	Bolivian Gulf Oil may lose some of its concessions	N	Oct.	18	65	
Molding					Poison gas disposal will be according to NAS recommendations	July	12	25	Borneo: world's largest liquefaction plant will use U.S. technology	Oct	4	47		
Crown Zellerbach plans injection-molding plants in Glassboro, N.J., and Calif.	N	Aug	2	9	Re-evaluation of the federal helium conservation program is recommended	N	Dec	17	31	Canada - LNG plant for BC Hydro	R	Dec	3	24
Prince of Wales crowned with aid of 150-year-old chemical process	Oct	11	65	Report - "Resources and Man - a Study and Recommendations", recommends the adoption of measures to conserve fossil fuels for chemical uses and essential liquid fuels	Nov	26	28		Chemcell will invest in oil and gas business	N	Oct	29	49	
Rohm & Haas' acrylic molding powder plant at Bristol, Pa., expansion	N	Aug	2	10	NASA				Con Gas starts up a large cryogenic plant to separate natural gas liquids at Hastings, W. Va.	Nov	12	50		
Sports market - snowmobile recipe	Dec	24	68	Earth Resources Research Data Facility will make data on earth resources collected by satellites available to the public	N	Aug	2	19	Demand for natural gas will begin to outrun supplies in a "few years", says FPC report	N	Oct	11	33	
Molecular Sieves - Industrial catalysts and molecular sieves for controlled oxygen atmosphere for food preservation	July	26	28	Nuclear power may replace chemical power in space exploration rockets	N	Aug	16	47	Dual-fuel auto engine - gasoline or natural gas - will undergo government tests	N	Dec	17	69	
Molybdenum - Amax and Penarroya joint study for exploitation of the York-Hardy molybdenum deposits in British Columbia	R	Aug	30	16	Space exploration will need practical way of regenerating food from metabolic wastes	Sept	20	115	El Paso says "world's largest" LNG project will cost almost \$1 billion, is slated to ease eastern U.S. gas supply problems	N	Oct	18	26	
Monomers					Tripropellant systems may be feasible for rocket engine for new space shuttle vehicle	N	Sept	27	23	ENI customer for Russian natural gas	N	Dec	17	32
BASF complex in Beaufort County, S.C.	Oct	11	27	National Agricultural Chemical Assn. Organizes a "DDT Task Force" to fight attempts to have DDT banned	July	12	31		Germany, Holland and Russia's gas contains little ethane or propane, therefore is not suitable for ethylene production	Oct	29	52		
Butyl styrene	C	Nov	26	143	National Assn. of Metal Finishers - Metal finishers are feeling the brunt of cadmium and nickel shortages	Aug	23	59	Great Britain: gas from biggest onshore field will be tied into the national grid	Aug	2	40		
Dow boosting styrene monomer capacity in Australia	N	Nov	19	114	National Assn. of Purchasing Management - G-P's Wilson discusses methanol prices and capacity at meeting	Oct	18	58	Houston Natural Gas weighs expansion of chemical ventures	Oct	18	32		
Epoxy monomer	C	Dec	17	79	National Assn. of Wholesalers - Files suit against plan under which the federal government would buy commodities for states and localities - cutting off distributors	N	Aug	23	27	IGT fleet testing of vehicles fueled by natural gas	Dec	17	23	
Etino Quimica plans VCM unit at Martorell, Spain	N	Aug	9	24	National Bureau of Standards				Kenai, Alaska, liquefaction plant now fully operational	N	Aug	23	59	
Hooker and Cros partners for proposed vinyl chloride monomer and chlorine-caustic soda project at Puertollano, Spain	N	Aug	9	24	Astin, Dr. Allen will remain as "consultant-director emeritus"	Sept	27	23	Leasing: new rules for oil, gas and sulfur leasing on outer continental shelf proposed	N	July	5	24	
Lubrizol will build diacetone acrylamide plant at Bayport, Tex.	R	Sept	13	18	Combination of gelled hydrogen and slush hydrogen as a rocket fuel	Nov	12	43	Libyan petrochemical buildup	N	Nov	12	28	
Methyl methacrylate monomer plant at Teesside, England, planned	R	Oct	29	56	Researchers outline the characteristics and propose a structure for "anomalous" water	July	12	43	LPG feedstock shortage is coming (charts)	Sept	20	37		
Monsanto Iberica expanding VCM capacity	N	Oct	29	105	National Conference on Packaging Wastes - Packaging: the problem of disposal (charts & table)	Oct	4	41	Louisiana's offshore gas pipeline	N	July	19	17	
Prices	N	Oct	29	105	National Engineering Information Conference - No evidence of critical inefficiency in the nation's scientific and technical communications	July	5	45	Lowell Gas' automated liquefied gas processing unit near Lowell, Mass.	R	Oct	18	34	
Radiation-induced polymerization of vinyl acetate homopolymers and copolymers move into the pilot plant	N	Dec	10	67	National Executives Conference on Water Pollution Abatement - In war on pollution, who'll lead way, industry or U.S.?	Nov	5	41	Northern Natural Gas seeking FPC okay to build pipeline facilities to import Canadian gas	Oct	11	28		
Rohm & Haas plans acrylate monomers plant at Sea Sands, Teesside, England	July	12	20	National Fertilizer Solutions Assn. liquid fertilizer marketing cost study	N	Oct	4	38	Offshore Texas and Louisiana lease sales will resume under stricter regulations	N	Sept	6	23	
Shell's VCM plant at Houston, Tex., will use Stauffer's technology	N	Oct	18	26	Proposed uniting of three fertilizer industry associations	R	Oct	18	34	Pan American Petroleum will search for gas and oil in Rocky Mountain area	N	Aug	30	10
Solvay plans VCM unit at Martorell, Spain	N	Aug	9	24	National Foreign Trade Convention - Stans favors U.S. adoption of a value-added tax; Percy calling for "Nixon Round" of negotiations to lessen impact of imports	Nov	26	26	Pipeline from Reeves County, Tex., to Texas' Gulf Coast area will be built by Houston Natural Gas	N	Dec	3	9	
Styrene monomer prices	N	Sept	6	33					Pipeline proposed to bring gas from Canada and the North Slope, Alaska, to the U.S.	N	July	5	32	
2-sulfoethyl methacrylate (SEM), new monomer from Dow	N	July	12	44					Plant sites '69 report. J.M. Winton (charts & tables)	Oct	29	59		
VAM: National Distillers claims Celanese infringed its VAM patent	Nov	19	39						Russian-German deal for natural gas	N	Sept	20	48	
VCM: Solvay continues to boost its capacity in Europe	N	Nov	19	113					Russians negotiate gas-pipeline deals in Europe and Japan	Oct	29	50		
VCM and PVC plant at Porvoo, Finland	R	Sept	13	29					Sea Robin Pipeline's financing set for project that will bring in natural gas from beneath the outer continental shelf of the Gulf of Mexico off the Louisiana coast	N	Aug	23	14	
VCM capacity expansion considered by KZO	N	July	12	33										
VCM plant, probably in Belgium's Limburg province, planned	N	July	12	33										
Monopotassium Monoammonium Phosphate - Israeli petrochemical complex	Oct	4	23											
Monosodium Glutamate														
Ban on sweetener sour flavor outlook too (table)	Nov	5	16											
Chinese are in a slow over MSG	Dec	10	19											
Controversy of MSG use in baby foods simmering	N	Aug	30	19										

Shell Canada plans gas processing plant at Pincher Creek, Alta.	N	Sept 27	24
Shell Canada's gas processing plant to be built near Cremona, Alta.	N	July 19	17
Wholesale prices are up	N	Nov. 12	27
Netherlands			
Acetone cyanohydrin plant	R	Dec 17	40
AKU and K2O agree to combine	N	Sept 20	43
July 19-45, N July 26-27, Aug 30-31, Amsterdam court orders Centrale Suiker Maatschappij and Suikerunie U.A. to stop advertising "unfounded, destructive criticism" of cyclamates	N	Aug 30	39
Arco Chemical and Halcon International propylene oxide project near Rotterdam	Aug 16	56	
Plant will be Europe's largest	R	Oct. 11	36
Cyanamid specialty chemicals plant at Rotterdam	Oct 11	28	
Dow ethylene diamine capacity at Terneuzen to be doubled	R	Nov 12	30
Europe's chemical giants set for home, overseas investment drive - report (charts & tables)	Dec 10	44	
European governments are focusing more attention on acquisitions and mergers that may be harmful to free competition	N	Dec 24	32
Gas centrifuge to enrich uranium is moving forward	N	Nov 26	133
ICI will boost PE capacity in Europe	Aug 16	56	
KZO considering expansion of VCM capacity	N	July 12	33
Monsanto plans acrylic fiber plant in northern Holland	N	Aug 9	24
Rotterdam Polyolefin's polypropylene capacity increase at Pernis	R	Dec 24	39
Shell and DSM plan refinery at Geleen	Sept 27	24	
Shell drilling for magnesium and potassium in north of Groningen province	N	Oct 29	49
Shell expanding petrochemical capacities	R	Oct 18	34
Shell will double PVC capacity at Pernis	N	July 12	33
Neumann, George C. - Camp Laboratories' president seeking big opportunity in little firm	Sept 20	145	
New Caledonia - Amax project with Soc. Miniere et Metallurgique de Penaroya to develop nickel deposits	N	Aug 30	16
New Jersey - Seeks 50% hike in world trade in next decade	Dec 24	24	
Nicaragua - Pennwalt's chlorine-caustic soda plant is back in operation following war between Honduras and El Salvador	N	Aug 23	28
Nickel			
Amx project with Soc. Miniere et Metallurgique de Penaroya to develop nickel deposits in New Caledonia	R	Aug 30	16
Amx to purchase Cuban American Nickel's Port Nickel refinery at Braithwaite, La.	R	Aug 30	16
Consumers will be limited to quantities needed to fill defense orders; may not replace inventories	N	Aug 9	21
Exports: issuance of export licenses for nickel discontinued	N	July 26	25
Mechanical alloying combines two well-known techniques for strengthening metals - dispersion hardening and precipitation hardening	N	Nov 12	50
Metal finishers are feeling the brunt of cadmium and nickel shortages	N	Aug 23	59
Ontario mines strike may affect nickel markets	N	July 19	38
Prices	N	Dec 3	36
Processes to stretch the nickel: (1) new bright metal-plating processes that can halve nickel consumption in decorative nickel-plating; (2) chemical regeneration of the nickel catalysts used to hydrogenate fats and oil	Dec 10	63	
Shortage appears to be approaching a crisis	N	Oct 11	33
Shortage forces up prices, spurs look for new sources (tables)	Nov 5	31	
Supply outlook grows worse	N	Aug 30	29
Supplies won't begin to ease for another four months	N	Nov 26	119
Whitehead Metals' plant has nickel stolen	R	Nov 19	44
Nitric Acid			
Du Pont's plant at Repauno Works near Glidestown, N.J.	R	Sept 27	18
Non-noble metal catalyst for nitric acid	N	Sept 13	68
Nitroaniline - Halogen nitroanilines	C	Aug 16	110
Nitrogen			
Air Products' industrial gas plant at Cleveland expansion	R	Sept 13	18
Air Products' oxygen-nitrogen plant at Geismar, La.	Oct 11	28	
Air Products will double industrial gas capacity at Burns Harbor, Ind.	N	July 5	10
Air Products Ltd. plans liquid nitrogen plant at Bracknell	Dec 3	23	
Brighter future for fertilizer? Sales figures show increase	Dec. 17	51	
Chemtron's National Cylinder Gas Div. starts producing oxygen, nitrogen and argon at Mt. Vernon, Ind., plant	R	Aug 23	22
Fertilizer outlook for '70: Overcapacity burdens fertilizer markets (chart)	Aug 16	91	

Industrial gases' outlook: new processing, pollution-control uses bolster outlook (chart)	Sept 27	39	
IVP contract for construction of the "largest nitrogen fertilizer plant in the world"	Sept. 13	15	
Nitroparaffin - Commercial Solvents' plant at Sterling, La., doubles capacity	R	Nov 12	22
Noise			
Acoustic window	C	Dec 24	54
Excessive plant noises now cost U.S. industry about \$4 billion/year in lost time and workman's compensation payments, say NIH	Dec 3	17	
Nylon			
Air bags may join seat belts as major auto safety devices	N	Aug 30	40
Allied expanding nylon staple fiber capacity at Columbia, S.C.	N	Oct 18	25
Allied's fibers that have silken qualities: a nylon-polyester bicomponent fiber called Source, and a new nylon dubbed Caprolan Touch	Sept 6	37	
Aquitaine Chemicals formed to market nylon-11 and make nylon-11 and-12	R	Sept 27	18
Caprolactam see also Caprolactam			
Celanese Mexicana, Nylon de Mexico and DSM joint venture to build Mexico's first nylon feedstock plant	N	Aug 2	20
Du Pont's Nomex, high-temperature resistant nylon can be made into work clothes	Oct 29	89	
Du Pont's Qiana quickens its pace	Sept 6	37	
Europe's synthetic fiber outlook cheerful	Oct 18	69	
Glass-reinforced nylon prices	N	Aug 30	30
ICI's nylon and polyester plant at Offenbach, Germany, expansion	N	Oct 4	20
Indian plant	Sept 6	24	
Low-density nylon foam for water safety and flotation products being test marketed in Florida	N	Oct 30	40
Nylon-4 at an advanced research stage	N	Oct 29	120
Nylon-9: SRI nylon-9 from soybean oil study project	N	July 5	43
Nylon-12 plant planned in Pennsylvania	N	Nov 12	29
Phirix Werke ups output	R	Aug 16	56
Reinforced butyl is the lining of the world's largest man-made Hawaiian reservoir	Nov 26	126	
Synthetic fibers outlook: Slower growth, slimmer profits; trend to greater involvement in the textile industry (tables)	Nov 26	123	
Synthetic turf: leg scrumage involves Monsanto and American Biltrite	Aug 30	36	
O			
Ocean exploration and mining see Underwater Mining			
Oceanography			
Fluor Ocean Services' new barges to develop more efficient construction equipment for use in the Gulf of Mexico	N	Aug 9	34
Submarine tanker may haul oil and sulfur out of Canadian Arctic	Oct 29	96	
Odor Control - Public wrath over plant odors spurs use of "neutralizing" aromas (table)	Aug 16	94	
Oil Shale see Shale Oil			
Oils & Fats			
Drew Chemical's Boonton, N.J. plant: Chemical regeneration of the nickel catalysts used to hydrogenate fats and oils	Dec 10	63	
Nylon-9 from soybean oil study project	N	July 5	43
OIA amended regulations say that petroleum-derived C ₁₂ to C ₁₈ paraffins or monoolefins are to be treated like ethylene	N	Sept 13	9
Tung oil prices	N	Sept 6	34
Olefins			
Cie. Francaise des Produits Chimiques-Shell's wax cracker olefin capacity at Berre will be increased	Aug 2	20	
Cyclic olefins	C	Aug 2	35
Ethyl's alpha-olefins plant at Pasadena, Tex., will cost more than \$10 million	N	Oct 18	26
Naphtachimie expansion at Lavera complex near Marseilles	R	Aug 16	56
Northern Petrochemical will expand Joliet, Ill., chemical operation	N	Aug 23	13
Olefins see also Polyolefins			
Optical Brighteners - The world of synthetic detergents - report Sal J. Silvius (charts, tables, flowsheets)	Sept 20	67	
Part 1	Oct 18	79	
Part 2	Dec 10	5	
Organic Chemicals see also specific chemical			
Organics - Production: Tariff Commission data for the first four months of '69 (table)	N	July 12	30
Organophosphines	C	Aug 16	110
Ortho-xylene - Atlantic Richfield expansion at refinery near Houston, Tex., onstream	R	July 5	19

Oxidation			
Black-liquor oxidation as way for pulpers to reduce air pollution discussed at TAPPI meeting	Sept 27	52	
Catalytic oxidation units	C	Nov 19	100
Oxygen			
Air Products' air-separation plant at El Segundo, Calif., explosion and fire in a compressor	Dec 17	24	
Air Products' industrial gas plant at Cleveland expansion	R	Sept 13	18
Air Products' oxygen-nitrogen plant at Geismar, La.	Oct 11	28	
Air Products will double industrial gas capacity at Burns Harbor, Ind.	N	July 5	10
Chemtron's National Cylinder Gas Div. starts producing oxygen, nitrogen and argon at Mt. Vernon, Ind., plant	R	Aug 23	22
Commercial nascent oxygen? - Humphreys' electrically driven bulk heater that operates continuously	N	Oct 11	56
Controlled oxygen atmosphere for food preservation	July 26	28	
Industrial gases' outlook: new processing, pollution-control uses bolster outlook (chart)	Sept 27	39	
Liquid oxygen used by Apollo 11	N	July 26	51
P			
Packaging			
Aerosol packaging materials pace sales pickup	Oct 29	32	
Dow laminated and coated packaging materials prices	N	Aug 9	27
FTC fair packaging and labeling regulations: FTC yielded to pressure by an industry-backed lawsuit, now excludes a number of items from FPLA coverage as not being "consumer commodities"	N	Aug 30	19
FDA rules see Food & Drug Administration			
Labeling laws see Laws			
Poison Prevention Packaging Act extension to cover products not used in the home, but stored on the premises, is sought by the Nixon Administration	N	Oct 11	33
Refuse causing a waste-disposal crisis (charts & table)	Oct 40	41	
Squibb's new plant introduces new manufacturing, packaging, warehousing, quality-control units	Nov 19	107	
Swedish Academy of Engineering Sciences says more plastics in packaging poses no real threat to the environment	N	Oct 18	71
Paint Industries Show stars oils and resins	Nov 19	43	
Points			
Chemical specialties and adhesives plant near Chicago planned	R	Nov 19	44
Defoaming agents C Sept 20-103	C	Sept 20	104
Fireproof resin is chief binding agent	C	July 12	27
High-gloss paint emulsion	C	Sept 20	104
High-temperature paint	C	Nov 26	143
Nonmetallic paint fungicide	C	Dec 3	43
Paint Industries Show features oils and resins	N	Nov 19	43
Paint-leveling agent	C	Dec 24	54
Plastic paint to prevent decay on tooth's grinding surface will be tested by NIDR	Oct 29	40	
Radiation-induced polymerization of vinyl acetate homopolymers and copolymers move into the pilot plant	N	Dec 10	67
Reichhold (Austria) agreement to supply Russia with industrial paint know-how	Aug 9	26	
Palladium - Prices N Aug 9-28	N	Nov 12	38
Paper			
Crown Zellerbach obtains rights to a Japanese "polyolefin paper" process	N	Dec 10	67
Economy-grade tape	N	July 19	32
International Paper's Texas expansion scaled down	N	Sept 20	33
N.Y. City may use plastic and paper bags throughout the city for garbage disposal	N	Nov 5	36
Paper product dyes	C	July 26	57
TAPPI 24th Engineering Conference: Papermakers try new technology in battle to trim operating costs	Sept 27	52	
Weyerhaeuser expansion program	N	Dec 3	9
Para-aminobenzoic acid employed in an ethyl alcohol solution: new way to use an old compound to protect skin against sun	N	July 5	53
Paraffins			
Cie. Francaise des Produits Chimiques-Shell will build urea adduct plant at Berre, near Marseilles, to produce linear paraffins; wax cracker olefin capacity at Berre will be increased	N	Aug 2	20
Manus Oil and Kanagafuchi joint venture to produce normal paraffins in Japan planned	R	July 5	34
Para-xylene - Rhone-Poulenc plans at Gonfreville, France	R	Dec 3	23
Patents			
Canada's Patent Act: controversial amendments have been enacted	N	July 19	52

Carter-Wallace's patent on meprobamate, tranquilizing agent marketed as Miltown, upheld..... N	Oct 11 22	Shell Chemical's expansion plans..... N	Dec 3 20	Teijin, Japan's biggest polyester producer, seeks oil in Libya..... R	Aug 23 35
Computer programs may not be patentable per se, but the operation of computers that are controlled by the programs may be - Prater-Wei case..... N	Aug 23 73	Shell expanding Netherlands petrochemical capacities..... R	Oct 18 34	Trans Alaska Pipeline way cleared..... N	Dec 24 31
Computer programs may be patentable under a new stand taken by U.S. Patent Office..... N	Oct 18 40	Sicily: SARP plans \$1-billion chemical and petrochemical complex..... N	Nov 12 28	UOP joins Japan Gasoline in forming a new group that will offer licenses in the Far East..... N	Oct 4 48
Drugs: Justice sues Ciba, CPC International over drug patents, licensing deals..... N	July 19 23	Singapore may get petrochemical plant..... N	Sept 27 24	Petroleum Assn. of Japan - Chemical makers are resisting naphtha suppliers' efforts to raise prices..... N	Sept 6 34
Goodyear charges Diamond Shamrock and Mobay infringing its urethane patents..... N	Oct 18 71	Sun Oil's Dunlop: Petrochemical and plant food revenues will be somewhat higher in '69..... N	Nov 12 22	Pharmaceutical Manufacturers Assn. Cyclamates - Can PMA get FDA to drop ban?..... R	Dec 17 24
Montedison polypropylene patent suits alleging infringement brought against Phillips Petroleum, Diamond and Eastman Kodak..... N	July 5 43	Teijin petrochemical buildup..... R	Aug 23 35	Drug makers want FDA's regulatory powers streamlined..... N	Oct 4 16
National Distillers claims Celanese infringed its VAM patent..... N	Nov 19 39	Thailand: Mitsui group wants to participate in complex..... N	Sept 27 27	Hails FDA's recall of nearly 40 million oxytetracycline capsules..... N	Dec 17 31
Patent bill: reformers lose..... N	Aug 16 38	Thailand: Shell and Thai Oil 50/50 joint venture complex..... N	Aug 9 24	Suit to block FDA from enforcing a new regulation enlarging its authority to ban a drug..... N	Nov 12 27
Reorganization of the Patent Office put into effect..... N	Dec 24 31	UC's Penuelas, Puerto Rico project expansion (table) N July 5-10..... N	July 12 13	Phenol Dow will build bisphenol unit at its Texas Div. plant in Freeport..... R	Aug 30 16
Stretch yarns patent: Lesona asks court to decide relative rights of company and 64 licensees..... N	Oct 29 89	Venezuela buildup accelerating again..... N	Sept 13 15	European production..... R	Oct 18 69
Synthetic turf: legal scrimmage involves Monsanto and American Biltrite..... N	Aug 30 36	Petroleum ACLU wants to stop oil companies from drilling new wells in California's Santa Barbara Channel..... N	Nov 19 34	Monsanto's phenol expansion at Chocolate, Tex., complex..... N	Aug 16 33
Tin catalysts for making urethanes patent dispute..... N	Nov 12 44	Alaska's sales of lands in the oil-rich North Slope area high..... N	Dec 3 46	Output for first six months of '69..... N	Aug 30 30
U.S. district court in N.Y. bars Uniroyal from enforcing its maleic hydrazide patent against Ansol..... N	Nov 12 13	Amerada Hess to increase capacity of St. Croix, Virgin Islands, refinery..... R	Sept 20 34	Phenol-from-cumene - Coproduced acetone: asset or Achilles heel in top phenol process? (table)..... N	Sept 20 133
U.S. Supreme Court rules there is no patent, if there is no synergism from using several known elements..... N	Dec 17 69	API fights changes in oil rules..... N	Nov 19 43	USS chemical buildup..... N	July 5 16
Patexpo '69 - a lot of unused but potentially significant technology will be exhibited for sale or license at a new kind of show this fall..... N	Aug 2 40	Atlantic Richfield plans to build a refinery at Machiasport, Me..... N	July 12 20	Philippines - Pacific's CPI prospects: proposed power/chemicals complex could spur trade in Far East (table)..... N	Sept 6 41
Pentaoxythritol Capacity boosts..... N	Sept 6 33	Bahamas Oil Refining's Freeport, Grand Bahamas Island, refinery to be completed next spring..... N	Aug 2 28	Phillips, A. (Alvin) Lloyd - American Aniline Products' new president and director: Managing by the Golden Rule..... N	Aug 30 45
Commercial Solvents expands Allentown, Pa. plant..... N	Aug 2 27	BP's subsidiary for production and sale of protein from petroleum: two new plants at Grangemouth, Scotland and Laverne, France..... R	Dec 17 40	Phosgene - Shipping from Army Arsenal halted by U.S. DOT..... N	Sept 20 38
Hercules upping capacity N July 12-29..... N	Aug 5 27	Canada, Nova Scotia oil?..... R	Oct 18 33	Phosphates ARCO dedicates Fort Madison, Ia., fertilizer complex..... N	Oct 11 27
Pan American Chemical plants plan N July 12-29, N Aug 2-27..... N	Nov 5 13	Chemcell will invest in oil and gas business..... N	Oct 29 49	Ban on detergent phosphates opposed by government and industry..... N	Dec 24 23
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Supply and demand is small, and only imports are preventing a serious shortage of capacities, end-uses..... N	July 12 29	Depletion allowances: House and Senate versions (table)..... N	Nov 12 20	Chemicals prices..... N	Dec 10 54
Percarbonate - Pennwalt's Genesee, N.Y. percarbonate initiators and specialty chloroformates plant..... R	Sept 20 43	FTC charges producers of petroleum coke with restraint of trade..... N	Dec 17 25	Fertilizer outlook for '70: Overcapacity burdens fertilizer markets (chart)..... N	Aug 16 91
Perfluorosulfonic Acid - Thermoplastic combining fluorocarbon and ion exchange properties called XR..... N	Sept 20 124	Foreign trade zones - Proposal to repeal the Foreign Trade Zones Act has come under attack from Rep. Celler..... N	July 26 25	Fertilizer prices weaken..... N	Sept 27 44
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Personal Products - Personal hygiene spray market..... N	Dec 17 81	Hawaiian refinery planned..... N	July 26 14	Morocco's King Hassan renews his nation's claim to Spanish Sahara deposits..... N	July 12 33
Peru - Government declares that it will nationalize all major landholdings..... N	July 5 15	Houston oil men organize "to disseminate the facts" about the oil, gas and petrochemical industries..... N	Dec 24 25	New techniques to cut costs of bulk-handling..... N	Nov 12 34
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Petrochemicals Amoco's Geel, Belgium, plants to produce PP, polystyrene and isophthalic acid..... N	Nov 12 30	Imports see Import	Sept 20 139	Prices In White Springs, Fla..... A	Dec 24 58
Argentina: Dow's planned petrochemical complex at Bahia Blanca protested by producers..... N	July 5 36	Iran takes a petrochemical tack (map)..... N	Sept 20 139	Spain: phosphatic fertilizer project for Huelva possible..... N	July 12 33
Venture delayed..... N	Aug 9 25	Justice Dept. wants a consent decree barring Witco from allocating sales territories and fixing prices of its Kendall-brand petroleum products..... N	Dec 17 18	Water quality degraded by detergent phosphates, how much?..... N	Oct 29 106
Chemico is prime contractor..... N	Sept 13 24	Justice Dept. will look into joint bidding by major oil companies, presumably including those on Alaskan oil leases..... N	Oct 18 34	Wisconsin bill would ban "sale or use of detergents containing phosphorus"..... N	Sept 6 33
Dow confirms proposal to build complex under terms of the country's new "petrochemical promotions" law (table)..... N	Sept 13 29	Leasing: new rules for oil, gas and sulfur leasing on the outer continental shelf proposed..... N	July 5 24	Phosphate Ester - Plasticizer prices..... N	Nov 12 38
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Argentine petrochemical users are resisting Dow's sales efforts..... N	Dec 24 39	LPG from Australia for Japanese firms..... N	Oct 29 50	Phosphoric Acid ARCO dedicates Fort Madison, Ia., fertilizer complex..... N	Oct 11 27
BASF petrochemical feedstock in Europe buildup..... N	Oct 18 69	Libyan Revolutionary Council is quietly advising foreign oil companies it wants higher price tags on oil..... N	Sept 13 10	Israeli petrochemical complex..... N	Oct 4 23
BASF plans Rhine site for petrochemical intermediates units..... R	Aug 16 57	Netherlands refinery planned by Shell and DSM..... N	Sept 27 24	Phosphate plants cut costs with new materials-handling methods..... N	Nov 12 34
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Bolivia plans petrochemical buildup in wake of Gulf takeover..... N	Dec 3 23	Odessa, Tex., to be found of learning or fount of oil?..... N	Nov 5 21	Phosphorus - Electric Reduction resumes output at Newfoundland plant July 12-37..... N	July 19 51
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Monsanto Iberica complex in Tarragona..... N	Aug 30 32	Protein concentrates made from petroleum: putting "petro-protein" on the table (table)..... N	Aug 2 41	Pigments BASF complex in Beaufort County, S.C. PPG is out with fourth grade of titanium dioxide pigment..... N	Oct 11 27
Montecatini-Edison expands chemical operations in southern Italy..... N	Oct 4 23	Puerto Rico's Penuelas refining complex expansion..... N	Oct 4 9		Nov 19 76
Oil import quotas see Imports		Separation for high-boiling crude oil fractions test: gel permeation chromatography technique..... N	Oct 4 47		
PetroChem oil plan: equity for all? New chemical industry group proposes oil imports compromise..... N	Nov 26 28	Submarine tanker may haul oil and sulfur out of Canadian Arctic..... N	Oct 29 96		
Projected U.S. petrochemical trade flow to '80 (table)..... N	July 5 14				
Scotland: Rezoning approval will permit Grampian Chemical to erect complex at Invergoran, Moray Firth..... N	Aug 9 24				

Three new high-temperature products; a fiber, a film and a varnish	Oct 29 120	Fertilizer outlook for '70: Overcapacity burdens fertilizer markets (chart)	Aug 16 91	BP's subsidiary for production and sale of protein from petroleum; two plants at Grangemouth, Scotland and Laver, France	Dec 17 40
Unival's Vibrathane 6005 printing roller coating	Aug 23 68	Hungary's Chemimport investing \$54 million in a Canadian potash project	Aug 2 20	Device for extracting protein from common jungle weeds	Sept 20 115
Polyolefins		Sulfate of potash prices	Oct 11 42	First solid evidence that poly I:C induces interferon production in humans presented by M. Hillemann of Merck Institute	Dec 24 72
Crown Zellerbach obtains rights to a Japanese "polyolefin paper" process	Dec 10 67	Sylvite of Canada project	Sept 13 29	Fish - World's largest permanent floating fish-protein plant will be built by a Scandinavian consortium	Oct 4 48
Huels' joint venture with VEB-Chemie to double polyolefin capacity	Aug 30 32	Potassium		Fish protein concentrate stacks up as best answer to protein famine	Dec 17 61
Polymorphic Materials - Shoe-upper materials exhibited at Leather & Allied Industries Exposition	Nov 19 76	Ion-exchange electrodes for potassium detection	Aug 23 74	Fish protein plant will be built by Cardinal Protein Ltd. in Nova Scotia	Dec 3 10
Polypropylene		Royal Dutch/Shell drilling in Groningen province, Holland	Oct 29 49	French plant at Cap Laverre to produce protein concentrate biomass from hydrocarbons	Dec 3 24
Days-Ease system uses Mylar-backed PP pouch	Oct 29 88	Potassium Chloride - Dumping: Treasury Dept. says Canada, West Germany and France are dumping potassium chloride in the U.S.	Aug 30 19	Liquid whey now being discharged as waste by the dairy industry may be converted into a high-protein food supplement	Nov 12 27
Diamond's Houston PP operations expansion	Oct 4 9	Potassium Nitrate - Prices	July 5 31	Protein concentrates made from petroleum: putting "petro-protein" on the table	Aug 2 41
Du Pont's Tylar spun-bonded PP rug-backing plant expansion	Nov 19 44	Potassium Silicate - Prices	Nov 19 75	- letter	Sept 20 16
Europe's synthetic fiber outlook cheerful	Oct 18 69	Power - Coal, not nuclear fuels, proposed as 3 mill power source (table)	Oct 4 26	- Protein from cellulose waste products	Nov 12 49
Imperial Oil plant at Sarnia complex, Canada	July 5 34	Prices		Public Relations	
IPAKO Argentine expansion completed	Oct 29 57	CW's computerized chemical stock prices (table) July 5-20, July 12-22, July 19-27, July 26-22, Aug 2-15, Aug 9-18, Aug 16-44, Aug 23-24, Aug 30-17, Sept 6-18, Sept 13-20, Sept 20-44, Sept 27-20, Oct 4-17, Oct 11-30, Oct 18-36, Oct 29-36, Nov 5-22, Nov 12-24, Nov 19-46, Nov 26-32, Dec 3-18, Dec 10-24, Dec 17-28	Dec 24 28	American Paper Institute's film "So What's So Special About Paper"? is effort to interest young people in the industry	Sept 27 53
Montedison patent suits alleging infringement brought against Phillips Petroleum, Diamond and Eastman Kodak	July 5 43	Consumer Price Index moved up 0.5%	Oct 29 40	Houston oil men organize "to disseminate the facts" about the oil, gas and petrochemical industries	Dec 24 25
Neofill's plant at Terni	Oct 18 66	How the CPI reads the indicators	Nov 12 16	Public wrath over plant odors spurs use of "neutralizing" aromas (table)	Aug 16 94
Plastic wrapper for roads allows builders to substitute native clay soils for granular base	July 12 25	Wage-price control possibility keeping business edge	July 26 25	Science as a foreign policy tool gains favor with Pres. Nixon	Sept 6 23
Rheinische Oelwerke's plant at Wesseling, West Germany	July 5 34	Wholesale price index N July 19-38, N Aug 30-30	Nov 5 21	Publisher's Page - New job, but a familiar mission, P.L. McPherson	Nov 19 5
Rotterdam Polyolefin's PP capacity increase at Pernis, Netherlands	Dec 24 39	Printing		Puerto Rico	
Shell Chemical boosts capacity	Dec 3 20	Philadelphia Bulletin will use Poly-Auto-plate system for high-quality letterpress color printing	Dec 3 9	Penueles refining complex expansion	Oct 4 9
Synthetic turf: legal scrimmage involves Monsanto and American Biltrite	Aug 30 36	Staley's prepress colorproofing system	Aug 9 33	UC's Penueles project expansion (table)	July 12 13
Toyo Rayon PP plans	Sept 6 24	N July 12-44	Aug 23 68	Pulp	
Polypropylene see also Propylene		Unival's Vibrathane 6005 printing roller coating	Aug 23 68	Contract to investigate activated carbon for reclaiming water from pulp mill effluent awarded to St. Regis Paper	July 5 44
Polypropylene Glycol - Dow planning Australian plant	Nov 19 114	Process Equipment		International Paper's Texas expansion scaled down	Sept 20 33
Polyribonucleic-acid-polyribocytidylic Acid - First solid evidence that poly I:C induces interferon production in humans presented by M. Hillemann of Merck Institute	Dec 24 72	Air-cooler sales begin upswing as fresh-water reserves shrink	July 5 22	TAPPI 24th Engineering Conference: Papermakers try new technology in battle to trim operating costs	Sept 27 52
Polystyrene		Chemswon reflects healthy state of chemical equipment business	Dec 10 57	U.S. Plywood-Champion will supply Alaskan unbleached pulp and lumber to Kansai Paper Wg.	July 12 13
BASF plans Latin American investment boosts	Dec 10 28	"Conversion-tolled" titanium-clad steel plate in Du Pont's top new contender for use in the fabrication of process vessels	Dec 17 25	Weyerhaeuser studying new method of processing pulp that involves an organic solvent	Dec 3 9
BASF Styropor plant in Jamesburg, N.J. expansion	Sept 27 18	Cryogenic vaporizer	Sept 20 101	Pumps	
Foster Grant expands Baton Rouge, La. plant capacity	Dec 10 22	The dynamic equipment/engineering industry - letter	Aug 16 5	Centrifugal pumps	July 26 57
Prices	Dec 17 55	Fluorocarbon-lined equipment	Aug 2 35	Corrosion-resistant pumps	Aug 16 110
Selective polystyrene prices	Dec 3 36	K & C cuts production costs for urethane foam maker	Dec 3 51	Plastic pumps	Oct 29 129
USS Chemicals' Haverhill, O., complex contract to Libwin	Aug 2 10	Piezo-electric fluid metering valve: "Moon valve" seeks down-to-earth CPI process control jobs	Aug 2 36	Sludge pump	Nov 19 101
Polystyrene see also Styrene		Sieving machine	Nov 19 100	Purchasing - Commission to study government procurement policies and procedures will be named soon	Oct 4 19
Polytetrafluoroethylene - ICI producing PTFE at Bayonne, N.J. complex	Oct 11 27	Sludge discharger	Sept 20 103	Purification - Dow offers package guaranteed to control corrosion in ammonia and hydrogen purification units	Aug 9 33
Polyvinyl Alcohol - Japanese hot-water soluble PVA film will be marketed in the U.S.	Nov 19 89	Swedish venture to make reactor vessels and other heavy steel components for CPI	July 19 51	Pyrochlore - UC columbium mining project in Congo	July 12 37
Polyvinyl Butyral - Monsanto will boost PVB sheet and resin capacity	Nov 12 30	Product Development - How to court the consumer - report Herbert Terry	Aug 16 67	Q	
Polyvinyl Chloride		What it costs to launch a consumer product (table)	Aug 16 67	Quality Control - Squibb's new plant introduces new manufacturing, packaging, warehousing, quality-control units	Nov 19 107
Bottle prices	July 19 38	Production		R	
Christmas trees - Sales bells ring	Dec 24 67	Cartex uses numerical control to increase production rate	Dec 3 51	Radiation	
Diamond Shamrock PVC compound production capacity at Delaware City, Del., boost	Sept 20 43	CPI shipments rise	Oct 12 22	Esso Research licenses radiation-induced process for making linear sodium alkane sulfonate to Hodogaya Chemical, Japan	Dec 10 67
Goodrich's new effluent-treatment system for PVC plant near Padricktown, N.J.	Oct 18 105	Index for chemicals, petroleum and rubber show signs of slowdown - FRB figures	Oct 29 35	Fine-particle PE made by nuclear radiation begins test phase in Japan	Dec 17 70
Japanese expansions	Aug 23 35	Industrial operating rates in most major segments of the CPI down in October	Nov 26 21	Nuclear radiation applying for job in enzyme processing	Aug 23 74
Societa Chimica Ravenna's unit planned	July 5 34	Russian chemical industry output up: snags remain (chart)	Dec 17 35	Radiation-induced polymerization of vinyl acetate homopolymers and copolymers move into the pilot plant	Dec 10 67
Solvay continues to boost its capacity in Europe	Nov 19 113	Propene		Sterilization by a combination of heat and nuclear radiation	Oct 11 56
Solvay plans calendaring plant near Brussels	Dec 10 28	Bayer ups capacity	Aug 9 24	Railroads	
Taiwanese plant at Singapore planned	July 5 34	Futures trading: COMEX will offer a new contract	Aug 2 27	Derrailments force rail safety overhaul	Sept 27 14
Ulysses Irrigation will produce extruded PVC irrigation pipe	Nov 26 22	LPG feedstock shortage is coming (charts)	Sept 20 37	Freight rate not going up; ICC denies requested 6% increase	Oct 29 40
Vinatex adding a second unit at Staveland	July 5 34	Propellants - Tripropellant systems may be feasible for rocket engine for new space shuttle vehicle	Sept 27 23	Freight rates see Freight Rates	
VCM and PVC plant at Porvoo, Finland	Sept 13 29	Propylene		Hazardous materials see Shipping	
Polyvinylpyrrolidone - GAF's PVP - Nov 19-128 - letter	Dec 10 5	Calvo-Montedison polypropylene expansions	Sept 20 48	Illinois Central Railway cars of vinyl chloride explode	Sept 20 38
Paromeric Materials		Europe's synthetic fiber outlook cheerful	Nov 5 29	ICC orders another crackdown on delays in returning railroad freight cars by non-owners	Sept 13 23
Paromeric: many starters, few finishers. Shoe-upper materials were exhibited at Leather & Allied Industries Exposition	Nov 19 76	Oriented film prices	Nov 5 29		
Tenneco's Jentra 3, shoe-upper material	Nov 19 76	Propylene Glycol			
Oct 18-71 - letter	Nov 26 12	Dow planning Australian plant	Nov 19 114		
Potash		Prices	Oct 11 41		
Antidumping hearings against foreign potash producers	Sept 13 23	Propylene Oxide			
Tariff Comm. ruling expected	Nov 12 27	Arco Chemical and Halcon International project near Rotterdam	Aug 16 56		
Ruling	Dec 3 35	Plant will be Europe's largest	Oct 11 36		
Brighter future for fertilizer? Sales figures show increase	Dec 17 51	Prices	Oct 11 41		
Canada: Prorating plan N Aug 16-88, N Oct 29-105, N Nov 12-37	Dec 24 57	Protein			
Canada prorating plan: Will it cut the mounting pile (tables)	Nov 19 36	ACS 158th national meeting: food from garbage	Sept 20 114		
Canada: Saskatchewan's production and price controls unveiled	Nov 26 119	Bacteria strains capable of converting useless solid refuse into a high-protein animal fodder	Sept 20 114		
Canadian freight rates are shaping up as a treat to potash industry	Dec 3 36				
Dead Sea Works expansion	Dec 24 39				

Kansas City Southern freight train explosion unexplained	N	Aug	9	28	Reverse-osmosis and ultra filtration moving out of the laboratory and into commercial use: Wide markets for thin membranes (chart)	Aug	30	33	Monsanto Iberica plans to produce rubber chemicals in Spain	N	Nov	19	114		
Plant siles '69 report. J.M. Winton (charts & tables)									Polybutadiene plant at Mitsubishi's complex planned	R	Nov	19	120		
Strike threat - N Aug 30-30					Rohm & A.A.'s AAS. West discusses R&D expenditures at AICHE meeting	Nov	26	129	Polyisoprene rubber prices	N	Aug	23	59		
Nationwide strike could start Dec 3	N	Nov	19	34	Science as a foreign policy tool gains favor with Pres. Nixon	N	Sept	6	23	Rubberized automobile bumpers	N	Nov	5	21	
Nationwide strike in January: threat heights	N	Dec	24	17	Twenty-seven companies working together to establish a cooperative R&D enterprise to be called Fluid Particle Research, Inc.		Oct	11	28	Synthetic rubber outlook in U.S. is rosy		Dec	17	52	
Strikes: 'Selective' rail strikes?	Sept	6	16		What happens when you cross a sugarbeet with a potato? Study on somatic hybridization or nuclear fusion of plants	N	Sept	20	124	Thin, strong, unsupported silicone rubber membrane will permit the building of more compact heart and lung machines	N	Oct	29	119	
Transit program in trouble	Aug	16	39							Rubber Manufacturers Assn. - Industrial rubber sales	R	Oct	18	34	
Trip-leased railroad cars used for storage run up chemical makers' costs	July	19	41		Resins					Rumors					
Randolph, Carl L. - U.S. Borax's new president. A sailor drives the mule team	Oct	4	53		ABS see Plastics					Coppe-Rust will build its third urea plant	N	July	12	33	
Rare Earths - Micro "magnetic bubbles" may be the answer in building low-cost, compact computers and telephone switching systems	N	Aug	16	102	Acetal resin demand picking up	N	Oct	11	42	Fertilizer plans		Aug	2	22	
Rats - Chlorohydrin sterilant for rats	N	Sept	20	123	Borden boosts urea and phenolic resin capacity at Fremont, Calif., Kent, Wash., and Springfield, Ore.	N	Aug	30	9	Russia					
Rayon					Bulk vinyl resins prices	N	Nov	5	29	Agreement with Japan for construction of a 900-mile gas pipeline connecting Okha with Hokkaido	N	Sept	20	48	
Courtaulds continuous filament rayon yarns production at Cornwall, Ont., plant will cease	N	July	12	29	Dow planning epoxy resin plant in Australia	N	Nov	19	114	Ammonia plant	R	Nov	12	32	
Polyester battle for tire market: Ford abandons the PEG-BB tire	N	Oct	11	41	Epoxy-casting resin	C	Dec	3	43	Bayer negotiating technical exchange arrangement in the plastics field	N	Nov	19	113	
Prices	N	Oct	4	37	Epoxy resin joint venture in Japan	R	Nov	19	120	Cesium oxide imports from Tantalum Mining of Canada	N	Oct	29	119	
Producers moving to get more of lucrative staple market		July	19	24	Fireproof resin chief binding agent in a paint		July	12	27	Chemical industry output up: snags remain (chart)		Dec	17	35	
Reactors					Hexene coolymer resin	C	July	26	57	ENI customer for Russian natural gas	N	Dec	17	32	
Australia AEC pilot plant to hurry manufacture of uranium oxide fuel pellets for reactor	N	Sept	27	58	Hot-melts score sizzling success - letter ion exchange may pay off in soybean processing	N	Oct	18	72	Esso Research received government contract to answer the question: Why has the USSR not cashed in on its outstanding theoretical studies in catalysis? Conclusion		Sept	20	117	
Dow will participate in feasibility studies for a proposed agro-industrial nuclear energy complex in Puerto Rico	N	Aug	16	34	Nylon see also Nylon					Ethylene plant from Japanese groups could mean more U.S. technology for USSR N July 19-45	N	Aug	30	39	
Fast way to load catalyst into fixed bed reactor tubes	N	Sept	20	124	Paper-coating resin	C	Oct	29	129	Five Eastern European nations have combined to strengthen their chemical industries	N	Aug	23	28	
Gas-cooled fast-breeder reactor getting a big push in Europe	N	Dec	17	70	Pennsylvania Industrial Chemical producing synthetic resin at Baton Rouge, La., plant	R	Aug	23	22	Natural gas for West Germany	N	Sept	20	48	
Gulf scaling up a high-temperature gas-cooled reactor at Fort St. Vrain, Colo.	N	Dec	17	70	Polyamides see Polyamides					Natural gas-pipeline deals in Europe and Japan		Oct	29	50	
High-temperature gas-cooled reactor (HTGR) to be employed at Philadelphia Electric's Peach Bottom plant	N	Dec	3	45	Polybutylene resin capacity at Mobil/Beaman, Tex., plant doubled	R	Oct	29	35	Nuclear reactor specialists return home after U.S. tour		Dec	10	64	
Indian heavy-water plant will use an ammonia-hydrogen exchange process to separate deuterium from heavy water	N	Oct	11	56	Polycarbonates see Polycarbonates					Reichhold Chemie (Austria) agreement to supply with industrial paint know-how; also provides for the sale of leather, wood and automobile finishes to the Soviets		Aug	9	26	
Soviet nuclear reactor specialists return home after U.S. tour	Dec	10	64		Polyesters see Polyesters					Soviets' new plant construction regulations	N	Oct	29	119	
Swedish Assn. of Engineers running a contest to find out what you can do with the waste heat from a nuclear reactor	N	Dec	17	70	Polyethylene see Polyethylene					Welding in space - first reports	N	Sept	20	103	
Swedish venture to make reactor vessels and other heavy steel components for CPI	N	July	19	51	Polyvinyl chloride see Polyvinyl Chloride					Rust Preventive - Rust-inhibitors	C	Sept	20	103	
Reagents - Metal complexing reagent	C	Sept	20	100	Polymer Applications alkylphenol-acetylene plant in Tonawanda, N.Y.	R	Sept	27	18	S					
Reforming - UOP obtains rights to Japanese town gas process, MRG	N	Nov	19	89	Resin tackifier	C	Aug	2	35	Saccharin - Ban on sweetener sours flavor outlook too (table)		Nov	5	16	
Refrigeration - Controlled oxygen atmosphere for food preservation	July	26	28		Water-fillable resins	C	July	19	32	Safety					
Research					Resorcinol					Air bags may join seat belts as major auto safety devices	N	Aug	30	40	
"Anomalous" (or ortho or poly) water is winning more attention	N	July	12	43	Boom in glass-fiber cord is sparking a boomlet for resorcinol	N	Dec	10	53	Auto makers will move more time to eliminate bugs in air bags	N	Sept	6	48	
Chemical-biological weapons virtually halted	July	12	14		Signal Chemical to make resorcinol by proprietary process as a springboard into hydroquinone production, plant at Bayport, Tex.	N	Oct	11	55	Automobile exhaust control devices, automobile safety see Automobiles					
Chemicals in search of a market - descriptions and suggested uses are given for hundreds of developmental chemicals Pt. 2	Oct	11	537		Reverse-osmosis and ultrafiltration moving out of the laboratory and into commercial use: Wide markets for thin membranes (chart)		Aug	30	33	Chemical plant operators take college course in fire fighting		Sept	13	59	
Du Pont's R&D operation: a \$250 million budget; Lenher tells where the money goes	Aug	9	15		Rhodesia					Congress' agenda: trade, aid and pollution (table)		Dec	24	20	
Enzyme research pushed by British	N	Nov	12	44	Chromium ore imports are about to be approved by the White House		Nov	19	48	DOT sets new guidelines for hazardous materials in pipelines		Oct	18	62	
Esso Research tries to cross-breed basic and applied research	Oct	11	48		UC asks approval to import ore from Rhodesia to relieve U.S. dependence on Russian supplies	N	Oct	29	106	Drive to get perishable foods off grocery shelves when they become outdated	N	Nov	26	35	
Ethyl Corp. Putting new push into Ethyl - report Anthony J. Piombino (charts & table)	Aug	23	47		UC chrome operations not going so well	R	July	12	37	Drugs see Drugs					
Federal spending for pollution-control R&D (chart)	Oct	29	111		Rhodium - Prices	N	Nov	12	38	Enzyme detergents may be the next target of federal consumer safety agencies	N	Dec	10	54	
First solid evidence that poly I:C induces interferon production in humans presented by M. Hilleman of Merck Institute	N	Dec	24	72	Ribonucleic Acid					Gulf of Mexico: tougher regulation for oil, gas and sulfur drilling		Sept	6	10	
Fish protein concentrate stacks up as best answer to protein famine	Dec	17	61		First solid evidence that poly I:C induces interferon production in humans presented by M. Hilleman of Merck Institute	N	Dec	24	72	Hazardous materials: proposal to require immediate reporting of accidents involving transportation of hazardous materials published		N	Nov	12	27
General Foods nutrition research stepped up, consolidating existing programs in a new Center for Applied Nutrition	N	July	19	52	New preventive for foot-and-mouth disease stimulates interferon production by injecting RNA	N	Dec	3	45	Hazardous materials: task force on transportation of hazardous materials to recommend organizational changes created	N	Nov	5	23	
How do you turn laboratory accidents into corporate profits? American Oil's Steigelman is trying to find out	N	Nov	12	44	Robson, Ernest - Monsanto's director of purchasing: Traveling man switches from selling to buying		Dec	10	80	Hearing protectors	C	Sept	20	101	
How to court the consumer - report Herbert Terry (table)	Aug	16	59		Rockets - Nuclear power may replace chemical power in space exploration rockets	N	Aug	16	47	Insecticides see also Insecticides					
Impact of research on chemical-biological warfare agents on America's foreign and defense policies will come under scrutiny	N	July	5	23	Rodenticides - M&T 5-para-chlorophenyl silitrane rodenticide	Dec	17	82	Nixon Administration says federal government should set and police health and safety standards for most U.S. manufacturing plants	N	Aug	9	12		
Israeli fiber researcher, M. Lewin, aids J.P. Stevens during 8-month working visit to textile lab	Nov	12	49		Rosin - Prices	N	Sept	13	54	Nuclear safety see Atomic Power					
NASA's Earth Resources Research Data Facility will make data on earth resources collected by satellites available to the public	N	Aug	2	19	Rubber					Oil of mustard (allyl isothiocyanate) additive stops youngsters from shifting glue		July	26	51	
OSM to support more innovative research, develop a closer working relationship with industry	N	Nov	5	35	Ameripol SN high-cis polyisoprene rubber prices	N	Aug	30	29	Pipeline safety see Piping					
Protein concentrates made from petroleum: putting "petro-protein" on the table (table)	Aug	2	41		ANIC will double synthetic elastomer capacity	R	Dec	3	23	Poison gas disposal will be according to NAS recommendations	N	July	12	25	
Protein from cellulose waste products	Nov	12	49		Black masterbatch plant planned by Cabot Belgium	R	Dec	3	23	Pollution control see Air Pollution, Water Pollution					
					Butadiene see also Butadiene					Railroads: derailments force safety overhaul		Sept	27	14	
					Butyl liner for man-made Hawaiian lake	Nov	26	126		Swedish Academy of Engineering Sciences says more plastics in packaging poses no real threat to the environment		Oct	18	71	
					Chloroprene rubber buildup in Japan	R	Aug	23	35	USDA admits it failed to enforce decision to require a new safety warning on labels of Shell's No-Pest strips	N	July	5	23	
					Dow planning SBR plant in Australia	N	Nov	19	114	St. Lawrence Seaway - CPI traffic: only 5.5% (chart & map)		Aug	23	33	
					Elastomer sales leap	Sept	20	40							
					E PDM: Goodrich joint development program and engineering studies on a commercial plant at Orange, Tex.	N	Aug	2	39						
					Goodyear Tire & Rubber to expand polybutadiene plant at Beaumont, Tex.	N	Sept	27	9						
					ICI's Bukaton plant at Wilton, Teeside, England closed down	N	July	12	29						
					Industrial rubber sales	R	Oct	18	34						
					Monsanto Europe will boost rubber chemicals production at Antwerp	R	Aug	16	57						

(N Newsletter. R Roundup. C Countdown)

Salicylic Acid - Prices N July 5-31	N	Dec	17	55	Kaiser organizes Kaiser Trading Co. and will enter the international commodity trading field "on a major scale"	N	Aug	9	27	Liquid carbon dioxide as solvent for extracting flavor and aroma components from fruits and fruit juices	N	July	5	44		
Salt					Marconiflo technique in moving iron ore from Peru to the U.S.	N	Aug	2	39	Shell doubles capacity of Sulfolane plant at Stanlow, Cheshire	N	Dec	3	20		
Prices	N	Aug	2	28	Phosgene traffic halted by U.S. Dept. of Transportation	N	Sept	20	38	1,1,1-trichloroethane - New processes, new antisomog rules, give new life to old solvent (tables)	N	Aug	9	30		
Submarine tanker may haul oil and sulfur out of Canadian Arctic	Oct	29	96	Plant sites '69 report. J.M. Winton (charts & tables)	Oct	29	59	Somatic hybridization - What happens when you cross a sugarbeet with a potato?	N	Sept	20	124				
Science Research Council - Enzyme research pushed by British	N	Nov	12	44	St. Lawrence Seaway - CPI traffic: only 5.5% (chart & map)	Aug	23	63	South Africa - Ethylene plant at Sasolburg onstream	R	July	5	34			
Scotland					Ships carrying bulk commodities would be eligible for government construction and operating subsidies under new maritime proposal	N	Nov	5	23	Southern Research Institute - Nylon-9 from soybean oil study project	N	July	5	43		
BP Chemicals' polybutenes installation at Grangemouth, Scotland	R	Oct	11	36	Tennessee-Tombigbee Waterway System: push for funds	Nov	12	19	Soybean - Ion exchange may pay off in soybean processing	N	Oct	18	72			
Reasoning approval will permit Grampian Chemical to erect petrochemical complex at Invergordon, Moray Firth	N	Aug	9	24	Transit program in trouble	Aug	16	39	Soybean Oil - Nylon-9 from soybean oil study project	N	July	5	43			
Selenium - Prices	N	July	19	38	User tax for waterways?	Oct	18	62								
Selling					Shipping see also Barges, Railroads, Ships, Tankers, Trucks											
Chlorinated insecticides fighting to hold a market (table)	July	12	31	Sicily see Italy						Space Technology						
Commerce Dept. has updated its input-output study	Nov	26	30	Silica - Fused silica	C	July	5	41	Apollo 11: chemical fuels used in flight	N	July	26	51			
Europe's chemical giants set for home, overseas investment drive - report (charts & tables)	Dec	10	33	Silicates					Apollo 11: For an epic adventure, a key assist from CPI	N	July	26	18			
Fertilizer sales figures show increase	Dec	17	51	Diamond Shamrock's anhydrous metal-silicate plant in Dallas, Tex.	R	Sept	13	18	Apollo 12: CPI plays a vital role	N	Nov	26	134			
How to court the consumer - report	Aug	16	59	Sodium silicates prices	N	Sept	6	33	Betadine and sodium hypochlorite help "decontaminate" the returning astronauts	N	Aug	2	40			
Kaiser organizes Kaiser Trading Co. and will enter the international commodity trading field "on a major scale"	N	Aug	9	27	Silicon				NASA's Earth Resources Research Data Facility will make data on earth resources collected by satellites available to the public	N	Aug	2	19			
Sales growth declining? - Commerce Dept. survey (chart)	Sept	20	39	Monsanto's polished silicon slices production at St. Peters, Mo., output doubled	R	July	19	26	Nuclear power may replace chemical power in space exploration rockets	N	Aug	16	47			
Soap and synthetic detergent makers establish a new sales high (table)	Oct	11	27	Selected types in short supply	N	Aug	16	88	Piezo-electric fluid metering valve	N	Aug	16	47			
West Germany's chemical industry sales zoom	Oct	4	14	Silicones					"Moon valve" seeks down-to-earth CPI process control jobs	Aug	2	36				
Selling see also Marketing ; see also specific chemical, commodity etc.					Dimethyl silicone fluids, emulsions and antifoam formulation prices	N	Nov	12	38	Soviet welding in space - first reports	N	Oct	29	119		
Semiconductors					Prices	N	Nov	19	76	Space exploration will need practical way of regenerating food from metabolic wastes	Sept	20	115			
Monsanto will build semiconductor materials plant at St. Peters, Mo.	R	Sept	13	18	Rhodia is contender for the U.S. silicone market	N	Aug	23	60	Space shuttle vehicles' rocket engine may require tripropellant systems	N	Sept	27	23		
TI's Sherman, Tex., plant will make single-crystal semiconductor material	R	Aug	16	42	Thin, strong, unsupported silicone rubber membrane will permit the building of more compact heart and lung machines	N	Oct	29	119	Spain						
Separation					Silver					Anti-air-pollution riots outside Dow's titanium oxide plant in Bilbao	N	Nov	12	43		
Monsanto's J.R. Fair discusses distillation cost comparisons: valve trays vs. packings at AIChE meeting (table)	Nov	26	130	Coinage: efforts to keep 1.5 million tray oz./week of Treasury silver flowing won't be pressed	N	Nov	19	76	Calvo Sotelo petrochemical expansion in Puertollano	N	Sept	20	48			
Separation for high-boiling crude oil fractions test: GPC (gel permeation chromatograph techniques)	N	Oct	4	47	Government-wide recovery program will retrieve huge amounts of silver from film and other materials	N	Aug	16	47	Calvo Sotelo plans benzene plant at Puertollano	R	Dec	24	39		
Sewage Treatment					Minting of silver dollars and half-dollars: end is in sight; Nixon Administration asks for approval of legislation to mint cupro-nickel coins	N	Oct	11	33	Elino Quimica considering building VCM unit at Martorell	N	Aug	9	24		
Allied Chemical: waste treatment is key to modernizing 90-year-old dye plant	Sept	27	29	Oil Shale milling operations at Keystone Mine in Crested Butte, Colo. begun	R	Sept	13	18	Europe's chemical giants set for home, overseas investment drive - report (charts & tables)	Dec	10	46				
AEC's M. Steinberg outlines a new approach to the problem of treating effluent from municipal sewage plants use a chemonuclear reactor to generate ozone, at AIChE meeting	Nov	26	129	Rep. Conte opposes minting silver dollars bearing the likeness of Dwight D. Eisenhower	N	July	26	25	Hooker and Cros partners for proposed vinyl chloride monomer and chlorine-caustic soda project at Puertollano	N	Aug	9	24			
Congress opens the public purse to accelerate river cleanup work (chart)	Nov	26	147	Singapore - Petrochemical plant feasibility studied	N	Sept	27	24	IQA's ethylene expansion	R	Oct	11	36			
Dow will operate a sewage disposal plant for Cleveland	N	Aug	30	39	Snowmobile - Polycarbonate market	N	Dec	24	68	Lopez de Letona takes over chemical push	Nov	12	29			
Funds for waste-treatment plants - Clear, cool water: Congress says "Now!" (table)	Dec	17	20	Snyder, Ralph, Jr.: The author of a plan to establish a national "oil bank" promoted to Deputy Administrator of OIA	N	Aug	30	19	Monsanto Iberica petrochemicals complex at Tarragona	Aug	30	32				
Lime in treatment of raw sewage - Ontario Water Resources Commission test program	N	Oct	4	48	Soap & Detergent Assn.				Monsanto Iberica plans to produce rubber chemicals	N	Nov	19	114			
Nationwide chain of 20 waste-treatment plants, to process industrial wastes, now under construction	Nov	5	42	Soap and synthetic detergent makers establish a new sales high (table)	Oct	11	27		Phosphatic fertilizer project for Huelva possible	N	July	12	33			
N.Y.'s solid waste into fertilizer plant	N	Sept	20	123	Will oppose Wisconsin bill that would ban "sale or use of detergents containing phosphorus"	N	Sept	6	33	Solvay plans to open bidding soon for VCM unit at Martorell	N	Aug	9	24		
No one-shot answer to pollution - Viewpoint	Dec	17	5	Soaps					Spanish Sahara - Morocco's King Hassan renews his nation's claim to phosphate deposits	N	July	12	33			
Reverse-osmosis and ultrafiltration moving out of the laboratory and into commercial use: Wide markets for thin membranes (chart)	Aug	30	33	Sales boom (table)	Oct	11	27		Stabilizers - Vinyl plastic stabilizer prices	N	Aug	23	59			
Three new, low-cost waste treatments use algae, char, hydrolysis: Z-M, Clarke and Trans Union processes (table, flowsheet) - letters Oct 11-5	Sept	13	63	The world of synthetic detergents - report Sal J. Silvis (charts, tables, flowsheets) Pt.1 Sept 20-67, Pt.2	Oct	18	79	Standardization								
Waste-treatment plant appropriations may be increased	N	July	5	24	Soda Ash				Air-quality criteria will be published once a year reports NAPCA	N	Dec	3	19			
Shale Oil					FMC will expand its Green River, Wyo., deposits	Dec	24	25	Auto exhaust - interim emission standards will be published	N	Dec	3	19			
Great Canadian Oil Sands reports production	R	Nov	19	44	Prices N July 5-31	N	July	12	29	FDA issues new regulations describing scientific criteria for determining the acceptability of medical evidence of a drug's effectiveness	N	Sept	27	23		
Senator Hart accuses Hickel of planning to "give away" 10,000 acres of the richest federal shale deposits in Colorado	Oct	18	33	Sodium					Metric system: "typical comment" from the Montreal meeting - letter	Dec	10	5				
Shampoo - Rugs: additives cause carpet shampoos to dry to a brittle residue that can be swept off, leaves no dirt-attracting film	July	12	26	Sodium bifluoride - Prices	N	Nov	19	75	Nixon Administration says federal government should set and police health and safety standards for most U.S. manufacturing plants	N	Aug	9	12			
Shipments of industrial chemicals	Nov	12	22	Sodium dihydro-bis(2-methoxyethyl) aluminate new, safe, organometallic hydride	N	Sept	20	123	Noise: new pressure on plants	Dec	3	17				
Shipping					Sodium Hypochlorite - Bactericides help "decontaminate" the returning astronauts	N	Aug	2	40	Sen. Kennedy introduces bill that would set standards for emulsifiers and dispersants used to clean up oil spills	N	Sept	27	23		
Du Pont files cargo damage suit against Blue Star Line and Southern Towing	N	Sept	20	34	Sodium Metasilicate - Prices	N	July	5	31	Standards for control center design discussed at ISA meeting	Nov	5	33			
French ports of La Havre and Marseilles: Fos slated for face lifting and industry buildup	Dec	24	26	Sodium Nitrilotriacetate - NTA crystals prices	N	Oct	11	42	Summary of water quality standards set by all 50 states (tables)	Oct	29	80				
Hazardous materials: proposal to require immediate reporting of accidents involving transportation of hazardous materials published	N	Nov	12	27	Sodium Sesquicarbonate - Prices	N	July	5	31	Stanford Research Institute - Joint venture Jonathan Development formed in an experimental home-building program	N	July	5	10		
Hazardous materials: task force on transportation of hazardous materials to recommend organizational changes created	N	Nov	5	23	Sodium Silicate - Prices N Sept 6-33	N	Nov	19	75	Statistical Aids						
					Sodium Tripolyphosphate - Israeli petrochemical complex	Oct	4	23	Commerce Dept. has updated its input-output study	Nov	26	30				
					Soldering - Solid mask	C	Nov	19	104	SIC gets a face-lifting	July	5	29			
					Solvents					U.S. input/output data - CPI markets: rapid growth, sweeping change (tables)	Dec	3	39			
					Chlorinated solvent prices	N	Dec	17	55	Steam - UOP obtains rights to Japanese town gas process, MRG	N	Nov	19	89		
					N Sept 20-109	N	Oct	29	26							
					Dow plans chlorine-caustic solvents complex at Stade, W. Germany	N	Oct	29	26							

Steel

"Conversion-rolled" titanium-clad steel plate is Du Pont's top new contender for use in the fabrication of process vessels. Dec 17 25

Eastern Stainless will use Linde's new process for making stainless; will be put to work in modernization of Baltimore mill. N Nov 5 36

Low-temperature, explosion-forming method. N Sept 27 58

Pickling inhibitor. C Dec 17 79

Sovereign Industries and Pullman Inc. plan steel plant in Arizona using the HyL direct gaseous reduction process. R Sept 13 18

Sterilization

Chlorohydrin sterilant for rats. N Sept 20 123

Sterilization by a combination of heat and nuclear radiation. N Oct 11 56

Steroids

Prices. N Aug 30 29

Sarsasapogenin. C Aug 23 79

Stockpiles

Cadmium: bill to release stockpiled cadmium introduced. N Aug 2 19

Bill passes without opposition. N Dec 3 19

Lead: bill to let the government sell 100,000 tons of lead at a negotiated price rather than by competitive bids approved. N July 19 31

Storage - Controlled oxygen atmosphere for food preservation. July 26 28

Storms - Hurricane Camille easy on chemicals along the Mississippi Gulf Coast. Aug 30 14

Streptomycin see Antibiotics

Strontium - Kaiser acquires a big celestite ore deposit on N. Scotia's Cape Breton; will put up a preconcentration plant at the mine site and a processing plant at Point Edward; new uses are catching on. N Nov 5 36

Strontium Carbonate - Fertilizer-grade strontium carbonate. C Nov 26 143

Styrene

BASF complex in Beaufort County, S.C. - Foster Grant expands monostyrene capacity at Baton Rouge, La., plant. R Dec 10 22

Gulf's plant will be built at Faustina works near Donaldsonville, La. N Dec 17 17

Output for first six months of '69. N Aug 30 30

ROW's unit at Wessling onstream. R Oct 11 36

Styrene see also Polystyrene

Styrene-butadiene - Borden will triple its styrene-butadiene latex production capacity. N Dec 3 10

Sudan - Nitrogen plant recommended. July 5 34

Sugar

Amsterdam court orders Centrale Suiker Maatschappij and Suikerunie U.A. to stop advertising "unfounded, destructive criticism" of cyclamates. N Aug 30 39

Process for making sugar esters. N Sept 13 67

Sugar derivatives. C Aug 2 35

United Kingdom study shows no significant correlation between sugar consumption and heart disease. N Aug 30 39

Sulfates

Richardson's lauryl sulfate plant at Chicago capacity doubled. N Dec 10 54

Sulfate of potash prices. N Oct 11 42

Sulfonates - Esso Research licenses radiation-induced process for making linear sodium alkane sulfonate to Hodogaya Chemical, Japan. N Dec 10 67

Sulfur

Allied studies sulfur removal from stack gases by direct reduction. N Aug 16 102

California Time Petroleum plans sulfur-extraction plant on Navarro County, Texas, property. N Oct 18 26

Canadian sour gas sulfur's contract prices dropped. N Nov 19 76

Elcor's sulfur-from-gypsum plant at Rock house, Tex., having startup troubles. N July 12-43

Exports are helping to keep the domestic inventories in line. N Nov 5 29

GRC's efforts to sell Mexican sulfur operations are stymied. N Dec 10 14

Gulf Resources will sell Mexican operations to Inversiones Azufreras, including terminal at Tampa, Fla. N Aug 16 34

Inventories. N July 19 37

Iran takes a petrochemical tack (map). N Sept 20 139

Leasing: new rules for oil, gas and sulfur leasing on outer continental shelf proposed. N July 5 24

Mexican government "may be thinking of confiscation" of Gulf Resources & Chemical's properties, says Allen. N Nov 19 43

Mobil's C. Pratt projects world sulfur demand. N Sept 20 109

Offshore Texas and Louisiana lease sales will resume under stricter regulations. N Sept 6 23

Phelan closing its three-year-old

mining operation at Nash Dome, Tex. N Nov 12 37

Price war developing in world markets. N Sept 27 43

Prices. N July 19-37

Producers face uphill battle. N Nov 12 37

Submarine tanker may haul oil and sulfur out of Canadian Arctic. N Oct 29 96

Sulfur from stack gas: Which process is best? July 5 46

Sulfuric acid from stack gas see also Sulfuric Acid

What next for the big sulfur producers? July 26 17

World sulfur: plenty now, more on the way. Oct 4 12

Sulfuric Acid

ARCO dedicates Fort Madison, Ia., fertilizer complex. Oct 11 27

Bayer switches to elemental sulfur (from pyrites) for proposed plant at Antwerp. N Sept 27 43

Bunker Hill's plant will be designed and built by Leonard Construction. N Sept 20 33

Bunker Hill plans unit at Kellogg Lead smelter. R July 5 19

Canadian users are feeling the impact of the Inco strike. N Aug 16 87

Olin Mathieson to build plant near Shreveport, La. R July 5-19

Prices. N July 12-29

Sulfuric acid from stack gas: more developments. N Dec 3 46

Teflon-lined furnace for recovery of sulfuric acid from sludge installed in American Oil's Texas City refinery. N Sept 6 48

U.S. Industrial Chemicals expanding its DeSoto, Kan., plant. R July 12 21

Sulfur Dioxide - New way to cut sulfur dioxide emissions from sulfuric plants to be installed at sulfuric plant in Paulsboro, N.J. N July 19 32

Sun Tan Lotions - Para-aminobenzoic acid employed in an ethyl alcohol solution: new way to use an old compound to protect skin against sun. N July 5 43

Surfactants

GA's legal label nonionic surfactants. N Aug 16 88

Prices. N Sept 13 54

Sweden

Europe's chemical giants set for home, overseas investment drive - report (charts & tables). Dec 10 46

Nation's pharmacies will be nationalized on Jan 1, '71. N Oct 18 66

Phosphate-containing heavy-duty and "low-sudsing laundry" detergents. N Oct 29 106

Swedish Assn. of Engineers running a contest to find out what you can do with the waste heat from a nuclear reactor. N Dec 17 70

Uddcomb Sweden AB, to make reactor vessels and other heavy steel components for CPl. N July 19 51

Unifits Kemi low-density PE capacity expansion. R Aug 9-25

U.S. company cancels contract because of Swedish government aid to North Vietnam. N Oct 18 66

Swedish Academy of Engineering Sciences - More plastics in packaging poses no real threat to the environment. N Oct 18 71

Swedish Assn. of Engineers - Contest to find out what you can do with the waste heat from a nuclear reactor. N Dec 17 70

Sweet, E. Roy of Ocean Systems: Ex-singer now ponders ocean floor. July 26 61

Sweeteners

Cyclamates' ban sparks race for substitutes among foodmaker. N Oct 29 26

U.S. Council for Special Foods formed. N Oct 29 30

Ban on sweetener sour's flavor outlook too (table). N Oct 29 16

Last week's developments. N Nov 12 22

Government's ban on sales of canned fruits and vegetables containing cyclamates delayed to coordinate with Canadian government plans. N Nov 26 22

H-E-W's Finch accuses FDA of making a public relations blunder in the handling of its research into the possible danger of cyclamates in artificial sweeteners. N Oct 18 31

Nutrition conference clashes over "GRAS" charges. Dec 10 19

Switzerland

Chemical imports and exports. N July 5 35

Ciba and Geigy merger may be contingent on a U.S. Justice Dept. ruling. N Sept 13 10

Europe's chemical giants set for home, overseas investment drive - report (charts & tables). Dec 10 48

Syntheses - Synthesis for a new and unusual antibiotic called phosphomycin, effective against bacteria in animals reported. N Oct 11 55

Synthetic Organic Chemical Manufacturers Assn.

ASP supporters get boost from Sen. Hollings at N.Y. meeting. N Dec 10 13

Dye imports up. N Sept 20 40

Turchan, Thomas nominated president. R Nov 19 44

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Taiwan - PVC plant at Singapore

planned. R July 5 34

Tankers

Cryogenic tankers will move natural gas from Alaska to Japan. N Aug 23 59

The Descartes, cryogenic tanker will deliver LNG to the U.S. July 5 29

Du Pont files cargo damage suit against Blue Star Line and Southern Towing. N Sept 20 34

Marconello technique in moving iron ore from Peru to the U.S. N Aug 2 39

S.S. Manhattan expected to arrive in Point Barrow, Alaska, early next week. N Sept 20 34

S.S. Manhattan opened Northwest Passage to oil tankers, and opened new oil spill debate. Nov 19 65

Ships carrying bulk commodities would be eligible for government construction and operating subsidies under new maritime proposal. N Nov 5 23

Submarine tanker may haul oil and sulfur out of Canadian Arctic. N Oct 29 96

Torrey Canyon oil spillage case settled. N Nov 19 33

Tanning - Chemicals give leather new glamor. Aug 23 67

Tantalum - Canada's first mill is processing 500 tons/day of ore. Sept 20 112

Tantalum Oxide - Prices. Oct 4 37

Tanzania - NPK fertilizer plant ordered. N July 5 34

Tape - Economy-grade tape. C July 19 32

Tariffs

ASP: BASF acquires a 10% interest in Wyandotte; one way to beat the ASP system. N Aug 23 28

ASP: MCA meeting highlighted by clash over proposed ASP repeal. Dec 3 16

ASP: Nixon Administration tests industry determination to back ASP: finds him of more oil, textile quotas won't alter chemical position. July 5 17

ASP: Nixon Administration's trade bill calls for repeal of ASP; no provisions for nontariff barriers. Oct 18 32

ASP supporters get boost from Sen. Hollings at SOCOMA meeting. N Dec 10 13

Argentina's fertilizer industry expects dumping by European producers. N July 5 31

Argentine petrochemical decree sets, new and in some cases, lower tariffs (table). Sept 13 29

Benzenoid chemical imports into the U.S. value jumped 30% last year. N July 26 38

Chemical industry is "strongly opposed" to the repeal of duty drawback, declares Christopher of MCA. N Aug 16 33

CED urges an end to all nontariff trade barriers. N Sept 13 23

Congress waits for Presidential push: Taxes, tax reform are now the dominant issues, but battles are brewing on trade, aid, pollution. July 12 16

Dumping: Treasury Dept. says Canada, West Germany and France are dumping potassium chloride in the U.S. N Aug 30 19

EEC nontariff barriers: What can the U.S. give to get reductions? (table). Dec 10 16

Gilbert, Carl, President Nixon's nominee as special trade representative: No ASP stand. July 5 18

National Foreign Trade Convention: Stans favors U.S. adoption of a value-added tax; Percy calling for 'Nixon Round' of negotiations to lessen impact of imports. N Nov 26 26

Potash dumping. N Sept 13-23

N Nov 12-27. N Dec 3 35

Tariff Commission proposals to eliminate duty drawback and foreign zones opposed by Ony. N Aug 23 14

Trade bill: No surprises in trade bill - nor in chemicals' criticism. N Nov 26 24

Trade policy has low priority at the White House. N Sept 13 23

U.S.-East bloc trade backers heartened by Nixon's Rumanian visit (table). N Aug 2 22

U.S. to delay some chemical cuts. Dec 24 26

We've given up the quo; it's time we got the quid - Viewpoint. N Nov 26 5

White House Task Force on Oil Imports drafting final details of a new tariff system on oil imports. N Dec 17 31

White House Task Force suggests tariff structure for oil imports. Dec 3 14

Taxation

Administration proposes increase in federal fees on trucks and a fuel tax on barge lines. N Aug 16 47

Comprehensive tax reform package. N July 5 9

Congress' agenda: trade, aid and pollution (table). Dec 24 20

Congress waits for Presidential push: taxes and tax reform are now the dominant issues but battles are brewing on trade, aid, pollution. July 12 16

Depletion cut: maybe 27%. Aug 2 15

Latest data on state franchise, corporate income, sales, vehicle fuel and severance taxes, and an index to the incentives of each offers to business (table). Oct 29 68

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Nixon 'cuts' tax cuts	Sept 13	14	Theft - Nickel stolen from Whitehead Metals' plant	R	Nov 19	44	U.S. Bureau of Mines		
Oil allowance adjustments: House and Senate versions (table)	Nov 12	20	Tiles - Wood-plastic tiles	C	Nov 19	101	Computer program to evaluate new chemical processes available	N	Dec 10
Oil depletion allowance alternative will be offered to Congress by Sen. Miller	July 26	25	Tin - Catalysts for making urethane patent dispute	N	Nov 12	44	Dec 3-46	N	Dec 10
Oil depletion allowances	Dec 10	27					High-strength plastics have enormous potential for use in mining and tunnel construction	N	Dec 17
Plant sites '69 report, J.M. Winton (charts & tables)	Oct 29	59	Tires				Separation for high-boiling crude oil fractions test: gel permeation chromatograph technique	N	Oct 4
Professionals can now take advantage of corporate tax laws	Oct 11	68	General Tire will pay the government \$50,000 to settle civil claims for alleged violations of the national traffic and motor vehicle safety act	N	Nov 5	23	U.S. Council for Special Foods - Formed: prime function is to present facts on dietary products at FDA hearings on sweeteners	N	Oct 29
7% tax credit: bill to repeal tax could kill tax reform this year	Sept 27	10	Glass-fiber markets are booming, thanks mainly to soaring use in tires	N	Dec 10	53			
Tax-free status of municipal bonds being eyed again	July 19	18	Rayon - Polyester battle for tire market: Ford abandons the PEG-BB tire	N	Oct 11	41			
Tax reform is being whittled down to size by the Senate Finance Committee	Oct 18	40	Tire and tube prices being boosted	N	July 5	32	U.S. Dept. of Agriculture		
10% surcharge: Senate goes its own way on 10% income surcharge extension	July 9	21	Titanium				Admits it failed to enforce decision to require a new safety warning on labels of Shell's No-Pest strips	N	July 5
10% surtax gets limited extension	Aug 9	21	Autocast Ti-22, racer built with weight-saving metals; significant for producers of titanium and aluminum		Oct 18	61	Combination dip shows promise in controlling postharvest rot	N	July 19
Texas' taxes rise	Sept 13	9	"Conversion-rolled" titanium-clad steel plate is Du Pont's top new contender for use in the fabrication of process vessels		Dec 17	25	DDT - New restrictions on use of DDT are included in recommendations being circulated privately within the Agriculture Dept.	N	Aug 2
User tax for waterways?	Oct 18	62	Corrosion of titanium in sea-water desalting plants will be studied		Aug 23	73	DDT-use suspended during review of its effects	N	July 19
West German 4% export tax was temporarily shelved	Oct 18	65	Domestic capacity and shipments	N	Oct 18	58	Ethers look good in early tests for insect control	N	Aug 9
Technical Assn. of Pulp & Paper Industry Engineering Conference (24th): Paper-makers try new technology in battle to trim operating costs	Sept 27	52	Japan and U.S. will trade titanium processing technology	N	Aug 23	74	Ion exchange may pay off in soybean processing	N	Oct 18
Oxygen debuts in the pulp mill: first-stage bleaching of kraft pulp with high-pressure oxygen and steam may replace three conventional steps using chlorine and hypochlorites (flowsheet)	Oct 18	103	National Lead pollution control program at titanium dioxide plant in Sayreville, N.J.	N	Dec 24	17	Leather: problems of cleaning leather have been solved, in laboratory, at least	N	July 12
			Tubing prices	N	Oct 18	57	Liquid carbon dioxide as solvent for extracting flavor and aroma components from fruits and fruit juices	N	July 5
Teflon			Titanium Dioxide				Membranes research	N	Aug 30
Belting, called Tufbestos: impregnating woven asbestos with Teflon to form a conveyor belt	Aug 16	108	National Lead opens plant at Nordenham, Germany	R	Sept 13	29	New pesticides for making sugar esters	N	Sept 13
Teflon-lined furnace for recovery of sulfuric acid from sludge installed in American Oil's Texas City refinery	Sept 6	48	Pigment: PPG is out with a fourth grade of TiO ₂ pigment	N	Nov 19	76	Pesticides Regulation Div. described as "an almost incredible failure"	N	Dec 3
Tennessee Valley Authority			Spain: Anti-air-pollution riots outside Dow's plant in Bilbao	N	Nov 12	43	Preventive for foot-and-mouth disease tested in mice	N	Dec 3
Annual fertilizer production and marketing conference: Fertilizer makers are told they need more marketing muscle (chart)	Oct 11	45	TNT - Du Pont gets a contract from the Army to reactivate a TNT plant at Newport, Ind.	R	Aug 16	42	Resumes its program of spraying airports with pesticides	N	Nov 5
Ferguson contract for urea solution unit	July 12	21	Toluene - Output for first six months of '69	N	Aug 30	29	Study on somatic hybridization or nuclear fusion of plants	N	Sept 20
"Fertilizer Trends, 1969" - prospects for fertilizer growth in the U.S.: long-term good, near-term, dim	Nov 26	119	Toluene Diisocyanate				U.S. Dept. of Commerce		
Liquid fertilizer marketing cost study	Oct 4	38	Belgium plant planned by Shell and Bayer	N	Dec 3	20	CPI shipments rise	N	Nov 12
Plans to sell about \$100 million worth of power bonds in competitive bidding	Nov 5	21	Prices	N	July 19	37	Issuance of export licenses for nickel discontinued	N	July 26
Slack, Archie, discusses problems of recovering slack-gas sulfur	July 5	46	Tolytriazole - Sherwin Williams Chemicals building plant in Cincinnati, O.	R	Sept 27	18	National Economics Div. - "Input-Output Structure of the U.S. Economy: 1963" (tables)	N	Dec 3
World's largest single-belt conveyor system will be tied into TVA project	Dec 10	68	Training				Office of State Technical Services is fighting for its life	N	Dec 24
Terephthalic - Amoco's plant at Decatur, Ala., will be one of the world's largest	Aug 16	33	Chemical companies' retirees launch new careers in teaching		Aug 40	43	Outlook for U.S. chemical exports	N	July 26
Tetraethyl Lead - Prices	July 26	37	Chemical plant operators take college course in fire fighting		Sept 13	59	Updating input-output study	N	Nov 26
Tetramethyl Lead - Prices	July 26	37	How to hire minorities		Sept 20	40	U.S. Dept. of Health, Education & Welfare		
Texas A&M University - Chemical plant operators take college course in fire fighting	Sept 13	59	Transportation - Transit program in trouble		Aug 16	39	Bureau of Solid Waste Management - Packaging: the problem of disposal (charts & table)	N	Oct 4
Textiles			Trichlorobenzene - Prices	N	July 5	31	DDP and DDT applications will be restricted to uses "essential" to the preservation of human health or welfare, says Finch	N	Nov 19
Corduroy finish	C	Aug 16	1,1,1-trichloroethane - New processes new antismog rules, give new life to old solvent (tables)		Aug 9	30	Nationwide survey of community water supply systems indicates that many of them contain more contamination than is permitted under drinking water standards of U.S. Public Health Service	N	Sept 20
Du Pont's new peroxxygen compound, Tyox, hydrogen oxide analyzer promise solutions to textile-bleaching problems	July 5	39	Trimethylolpropane - Celanese increases capacity at Bishop, Tex.	R	Sept 20	43	Secretary Finch accuses FDA of making a public relations blunder in the handling of its research into the possible danger of cyclamates in artificial sweeteners	N	Oct 18
Exports: Another try for textile curbs; Japanese delegation will discuss a curb on textile exports to the U.S.	Aug 16	40	Trucks - ICC grants Middlewest Motor Freight Bureau 6% blanket increase in freight rates	N	Sept 13	54	U.S. Dept. of Housing & Urban Development - Nearly 600 firms have bid for "operation Breakthrough" contracts	N	Oct 4
FTC says synthetic fiber manufacturers may be violating restraint of trade laws	Aug 2	19	Tungsten - GSA sale of 828,500 lbs of tungsten concentrates	N	Dec 17	31	U.S. Dept. of the Interior		
Fiber inventories rise	Oct 11	28	Ultrasonics - Ultrasonic Solution Analyzer to measure solids contents of solutions and suspensions	N	July 5	44	In war on pollution, who'll lead way - industry or U.S.?	N	Nov 5
Israeli fiber researcher, M. Lewin, aids J.P. Stevens during 8-month working visit to textile lab	Nov 12	49	Ultraviolet				Process for treating waste waters from Solvay process soda ash plants	N	Nov 12
Japan is ready for voluntary textile curbs	Nov 19	44	Stack gas monitors: how to keep watch on what goes up the stack (table)		Aug 2	31	Water resources in Alaska's oil-rich North Slope area should be assessed	R	Nov 12
Japanese delegation hears of the importance of textiles to the U.S. economy	Oct 4	19	Ultraviolet fire detector	C	Aug 23	79	U.S. Dept. of Labor - Van Atta: Government has switched from "pious hope" to stiff sound limits	N	Dec 3
Japanese resistance to U.S. demands for fewer textile imports appears to be crumbling	Nov 5	23	Ultraviolet Absorbers - Cyanamid specialty chemicals plant at Rotterdam complex		Oct 11	28	U.S. Dept. of Transportation		
Nylon-4 at an advanced research stage	Oct 29	120	Underwater Mining				Derailments force rail safety overhaul	N	Sept 27
Lubricant	C	Sept 20	Economic assessment of the manganese at the bottom of Lake Michigan being undertaken	N	Oct 4	48	Guidelines for hazardous material in pipelines	N	Oct 18
Major English textile companies are barred from merging; acquisition of English companies by foreigners also ruled out	July 26	13	Gulf of Mexico: tougher regulation for oil, gas and sulfur drilling	N	Sept 6	10	Proposal to require immediate reporting of accidents involving transportation of hazardous materials published	N	Nov 12
Monsanto's Textiles Div. realigns its structure to put more emphasis on market orientation	Dec 17	26	Offshore Texas and Louisiana lease sales will resume under stricter regulations	N	Sept 6	23	University College of London - Enzyme research pushed	N	Nov 12
Rule requiring "proper" instructions for laundering and drycleaning on textile products proposed	Nov 19	75	Submarine tanker may haul oil and sulfur out of Canadian Arctic	N	Oct 29	96	University of California - Case for DDT and the need for postponing a general ban on it made by Ray Smith	N	July 12
Scott Paper's graft polymerization techniques needs a new developer	July 26	52	Underwater Research see Oceanography United Nations - Desalination is costly, study shows	N	Sept 6	47	University of Maryland - Researchers outline the characteristics and propose a structure for "anomalous" water	N	July 12
Stevens plans textile chemicals unit at Piedmont, S.C.	R	July 5	U.S. Army				University of Texas - Odessa, Tex., to be found of learning or fount of oil?	N	Nov 5
Stretch yarns patent: Leesona asks court to decide relative rights of company and 64 licensees	Oct 29	89	Phosgene traffic halted by USDOT Sept 20-38		Sept 27	14	University of Utah - Urbanology Dept. partner in Hercules housing program	N	Sept 27
Synthetic fibers outlook: Slower growth, slimmer profits; trend to greater involvement in the textile industry (tables)	Nov 26	123	Poison gas disposal will be according to NAS recommendations	N	July 12	25			
Thailand			U.S. Army Office of Research - Para-aminobenzoic acid employed in an ethyl alcohol solution: new way to use an old compound to protect skin against sun	N	July 5	43			
Mitsui group wants to participate in petrochemical complex	Sept 27	27							
Shell and Thai Oil petrochemical joint venture	N	Aug 9							

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University of Wisconsin - What happens when you cross a sugarbeet with a potato? Study on somatic hybridization or nuclear fusion of plants N Sept 20 124

Uranium
American-design nuclear power plants, which use enriched uranium, are better than plants using natural uranium as their fuel says Electricite de France's Marcel Boiteaux Nov 5 33
AEC to begin operating three gaseous diffusion plants for uranium enrichment as a separate commercial enterprise Nov 19 41
Continental Oil's complex in southern Texas R Dec 24 26
Gas centrifuge to enrich uranium is moving forward N Nov 26 133
German firms will participate in the uranium enrichment centrifuge project N Dec 10 68
Government corporation to own gaseous diffusion plants now operated by AEC is the latest plan N July 19 31
Humble Oil buying 8,000 acres in Fremont County, Wyo., from General Nuclear N July 5 9
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Antilles Chemical - sold to Grace	C	Nov 26	27	Northside Exploration acquires 312 oil and gas leases	R	Sept 13	18	Acquisition of Industrias Coia	R	Dec 24	39
Artle, Bud, Inc. - Dow Chemical Financial buys about 17,000 acres in Ariz. and Calif.	N	July 5	9	Odessa, Tex., to be found of learning or found of oil?	Nov 5	21	Acquisition of Salzedorf's stocks planned	N	Nov 19	113	
Apache Chemicals - ultrapure chemicals	N	Nov 19	97	Para-xylene and ortho-xylene expansions at refinery near Houston, Tex.	R	July 5	19	Argentine industrial chemical complex at Rosario	R	Dec 24	39
Apco Oil - Alaska Barite bought by Inlet Oil and Gas	R	Sept 20	43	Philadelphia refinery fire	N	Sept 13	10	Ethylendiamine by new process	N	Aug 16	102
Applied Automation, Inc. - gas chromatograph system	C	Oct 29	129	S.S. Manhattan expected to arrive in Point Barrow, Alaska, early next week	N	Sept 20	34	EEC antitrust team fines nine European firms for alleged price fixing of aniline dyes N Aug 2-20, N Aug 16-48	N	Nov 5	21
Applied Plastics Corp. - belting, called Tubestore; impregnating woven asbestos with Teflon to form a conveyor belt	Aug 16	108	Sales and earnings	N	Sept 20	34	Earnings may be up	N	Dec 10	14	
Aqua-Chem Inc. - desalting equipment may make possible a billion-dollar business in by-products of industrial wastes	N	Nov 12	27	TAPS will be under the strictest controls ever placed on pipeline builders	Nov 12	20	Union Oil of Calif. buys remaining interest in Amoco Western	R	Aug 16	42	
Feedback on reverse-osmosis - letter	Oct 4	4	Union Oil of Calif. buys remaining interest in Amoco Western	R	Aug 16	42	Atlantic World Port, Inc. - enters the race to build refinery at Machiasport, Me.	July 5	15		
Aquitaine Chemicals Inc. - formed to market nylon-11 and make nylon-11 and-12	R	Sept 27	18	Atlas Chemical Industries - forms Imperial Atlas, a 50-50 venture with ICIANZ in Australia	R	Oct 29	56	Latin America investments to be boosted	N	Dec 10	28
Nylon-12 plant planned in Pennsylvania	R	Nov 12	29	Stuart Pharmaceuticals Div. - Newark, Del., plant to make selected pharmaceuticals, including liquid Mylanta and Sorbitrate	R	Aug 30	16	Melamine plants and processes (table)	N	July 12	49
Aquitaine-Organico - forms Aquitaine Chemicals to market nylon-11 and make nylon-11 and nylon-12	R	Sept 27	18	Austin Co. - engineering on hydroquinone for Signal Chemical's unit	N	Oct 11	55	Merges two wholly owned Australian subsidiaries, BASF Australia and Badocel Chemicals	R	Dec 17	40
U.S. investment plans	Nov 5	25	Atlas Chemical Industries - forms Imperial Atlas, a 50-50 venture with ICIANZ in Australia	R	Oct 29	56	Monsanto's phthalic anhydride plant will use BASF technology	N	July 19	18	
ARCO Chemical - fertilizer complex at Fort Madison, Ia. dedicated	Oct 11	27	Stuart Pharmaceuticals Div. - Newark, Del., plant to make selected pharmaceuticals, including liquid Mylanta and Sorbitrate	R	Aug 30	16	Orders the "world's largest" air separator from Linde AG	R	Dec 10	22	
Propylene oxide project near Rotterdam	R	Oct 11	26	Austin Co. - engineering on hydroquinone for Signal Chemical's unit	N	Oct 11	55	Petrochemical feedstock in Europe buildup	Oct 18	69	
Plant will be Europe's largest	R	Oct 11	26	Austral-Pacific Fertilizers - fertilizer plants onstream; merger with Cresco Fertilizers due	N	Nov 19	114	Rhine site for petrochemical intermediates units	R	Aug 16	57
SMA resins as additives for rug shampoos	C	Nov 19	101	Gibson Island, Queensland, fertilizer plant onstream	N	Oct 4	20	Sales	R	Aug 9	26
Wood-plastic tiles	C	Nov 19	101	Autocast Co. - Ti-22 racer built with weight-savings metals	Oct 18	61	Strike at polymer plant in New Castle, Del.	R	Oct 18	34	
Argus Chemical Corp. - epoxy plasticizer	C	Nov 26	143					Increased 54.6%	N	Nov 5	24
Soc. Italiana della Union Chimique Belge see under name	N	Aug 23	59					Sales in the U.S.	N	Nov 19	114
Vinyl plastic stabilizer prices	N	Sept 27	14					Spain: phosphatic fertilizer project for Huelva possible	N	July 12	33
Arkia Chemical - phosgene shipments halted in wake of public furor	Aug 9	34						Team in technology formed	N	Nov 12	43
Armco Steel - U.S.'s first OG unit to collect CO from basic oxygen converters at Middletown, O. plant	N	Aug 9	34					U.S. investments increased; industrial complex in Beaufort County, S.C.	Oct 11	27	
Armour & Co. - Dial's synthetic detergent manufacturing and distribution operations in Chicago acquired by Darrill Industries	N	Dec 3	9					U.S. investment plans	N	Nov 5	25
Greyhound will acquire from General Host its AC shares	R	Nov 5	21					Urea plant at Ludwigshafen will use Mitsui process	R	Dec 17	40
Interest in Shellstar Ltd. sold to Royal Dutch/Shell	Nov 26	27						West Germany's chemical industry boom N	July 19	45	
Armour Industrial Chemical Co. - fatty acid products' prices	N	July 5	31					Wyandotte Chemicals: BASF wants Wyandotte as a raw-materials base for U.S. expansion (charts)	Sept 6	28	
Gardner: Fatty acids, esters production will reach 181 million lbs. next year	Oct 4	14						Wyandotte Chemicals merger talks N Aug 16-34, N Aug 23-28, N Sept 27-9, N Oct 11-22	N	Nov 12	13

Bahamas Oil Refining Co. - Freeport, Grand Bahamas Island, refinery to be completed next spring.	N	Aug 2	28	Urea and phenolic resin capacity boosts at Freeport, Calif., Kent, Wash., and Springfield, Ore.	N	Aug 30	9	Chaprie, Robert A. new president and director - It was big news in Boston when a Cabot talked to a Chaprie.	July 19	69	
Bailey Meter Co. - function generator.	C	July 26	57	Borden Chemical Co. (UK) Ltd. - Prince of Wales crowned with aid of 150-year-old chemical process.	N	Oct 11	65	Gazcocean see under name			
Baird Chemical Industries - acquisition of Lonza Ltd.	N	Oct 4	10	Bowen Tools - Big Three Industrial Gas has tentatively agreed to acquire BT.	R	Sept 13	18	Cabot International Finance - will issue \$12-million worth of five-year notes in the Euro-dollar market.	R	Dec 17	26
Baker, J.T. Co. - Holland, Brazil and Mexico operations expanded.	N	Aug 2	20	Bralorne Oil and Gas - acquired by Chemcell.	N	Oct 29	49	Cabot Piping Systems - corrosion-resistant pumps.	C	Aug 16	110
Lead acetate and lead nitrate prices.	N	Aug 16	88	Bristol-Myers - tetracycline case: third chapter in tale; Justice seeks \$25 million in damages.	N	July 26	20	Plastic pumps.	C	Oct 29	129
Baker Perkins, Inc. - Chemical Machinery Div. - Centrifugal countercurrent liquid-liquid extractor - letter.	Aug 16	5		Tetracycline restraint of trade suit.	R	Dec 24	26	Calgon Corp. - conductive coating additive.	C	Sept 20	103
Baldwin-Montrose Chemical - DDT suit.	Oct 29	31		British Columbia Hydro and Power Authority - LNG plant.	R	Dec 3	24	Welfton, Ted, new president: Hoping to help Merck clean up.	Aug 23	83	
Bangor Bros. - nylon plant in India.	N	Sept 6	24	British Enkalan - Northern Ireland's fiber industry escapes damage during riots.	N	Aug 30	20	Calico Mills - polyester fiber plant in India.	N	Sept 6	24
Barringer Research - ultraviolet stack gas monitors (table).	Aug 2	31		British National Research Development Corp. - thin, strong, unsupported silicone rubber membrane will permit the building of more compact heat and lung machines.	N	Oct 29	119	California Time Petroleum - Sulfur-extraction plant on Navarro County, Texas, property planned.	N	Oct 18	26
Basic Incorporated - Basic Chemicals Div. forms Chemico-Basic Corp. July 5-46.	Sept 27	18		British Petroleum - naphtha for Singapore plant.	N	Sept 27	24	Calvo-ICI-Forst - low-density PE expansions.	N	Sept 20	48
Bayer International Finance N.V. - will offer 12-year bonds.	N	Nov 5	14	Protein concentrates made from petroleum - letter.	N	Aug 2	41	Calvo-Montecatini-Edison - polypropylene expansions.	N	Sept 20	48
Bayer Leverkusen - isocyanates plant at Newcastle, Australia.	N	Oct 29	49	Singapore petrochemical plant possible.	N	Sept 20	16	Calvo-Phillips Petroleum-Gros-Fore - high-density PE expansions.	N	Sept 20	48
Beaunit Fibers - conversion of a 25-million-lbs./year filament plant to make high-performance staple.	July 19	24		Sohio merger to B.P. American operations will be voted Oct. 9.	N	Sept 6	10	Calvo Sotelo - benzene plant at Puertollano planned.	R	Dec 24	39
Bechtel Corp. - air-cooler sales begin upswing as fresh-water reserves shrink.	July 5	22		Justice would block merger.	N	Oct 11	22	Ethylene output at Puertollano upped.	R	Dec 24	39
Mountain Pacific Pipeline Co. see under name				Antitrust is tough on Americans too - Viewpoint.	N	Nov 5	5	Petrochemical expansion in Puertollano N	Sept 20	48	
Beckman Instruments, Inc. - conductivity meter.	C	Nov 19	101	Merger okayed by Justice Dept.	N	Nov 26	21	Camag Inc. - Achem Div. - metal compounding reagent.	C	Sept 20	100
Fluoride ion analyzer.	C	Nov 19	97	Stockholders meeting was adjourned until Dec. 9.	N	Dec 3	10	Camel Chemical - PVC plant at Singapore planned.	R	July 5	34
Infrared stack gas monitors (table).	Oct 18	31		Merger okayed.	N	Dec 17	17	Camp Laboratories, Inc. - Neumann, George C., seeking big opportunity in little firm.	Sept 20	145	
Bedford Institute - Nova Scotia oil?	Aug 9	40		Subsidiary for production and sale of protein from petroleum; two plants at Grangemouth, Scotland and Laver, France.	R	Dec 17	40	Canadian Gridoil Ltd. - Ashland Oil will acquire 46.8% stock interest.	Oct 11	28	
Beech Aircraft Corp. - FRP for planes.	Aug 9	40		Tanker Torrey Canyon oil spillage case settled.	N	Nov 19	33	Canadian Industries Ltd. - demand weakening in some markets; PE production at Edmonton plant curtailed since a fire last June.	N	Sept 13	24
Bell Telephone Laboratories - micro "magnetic bubbles" may be the answer in building low-cost, compact computers and telephone switching systems.	Aug 16	102		TAPS will be under the strictest controls controls ever placed on pipeline.	N	Nov 12	20	Inco strike forces shut down of Copper Cliff sulfur plants and stops sulfuric exports to the U.S.	N	Aug 16	87
Bellanca Aircraft Engineering - FRP-bodied planes.	Aug 9	37		Taracona refinery ethylene product bids.	N	Nov 12	29	Sales and profits, first-half '69.	Aug 16	38	
Berger, Jensen & Nicholson - Hoechst seeking to buy into BJ&N.	R	Nov 12	32	BP Chemicals - acetic acid and vinyl acetate capacity at Hull and Baglan Bay, England expansion.	N	Oct 29	49	Cape Battery Co. - Vio-Bin process for FPC.	Dec 17	61	
Takeover bid.	N	Nov 26	36	BP Oil Corp. - S-5, Manhattan expected to arrive in Point Barrow, Alaska, early next week.	N	Sept 20	34	Carborundum Co. - fused silica.	C	July 5	41
Sherwin-Williams' competition in bidding for control of BJ&N.	N	Dec 24	18	Broken Hill - Australian nickel projects.	N	Nov 5	32	Cardinal Protein Ltd. - fish protein plant will be built in Nova Scotia N Dec 3-10.	Dec 17	61	
Best Sales Co. - Mafia link with chemical industry turns up; mobster-run sales agency pressured A&P to sell detergent.	July 5	13		Bromet - ethylene dibromide plant at Magnolia, Ark., going onstream.	N	Aug 9	27	IPA extraction for FPC.	Dec 17	62	
Beta Corp. - Murphy, Henry discusses new approach to design at ISA meeting.	Nov 5	33		Brown & Root - "Mr. Clyde", erection pole and galleys head assembly, has the greatest lifting capacity now available in construction industry.	N	Oct 11	73	Carey-McFall - PVC trees - Sales bells ring.	Dec 24	67	
Betz Laboratories - oil removal boll-out.	Aug 23	79		Signal Chemical's hydroquinone unit.	N	Oct 11	55	Cargill Inc. - Carguard prices.	N	July 26	38
Big Three Industrial Gas & Equipment Co. LOX suppliers for Apollo 11.	N	July 26	51	Brown Boveri - equipment consortium.	N	Sept 13	15	Carlisle Chemical - amide-type wax.	C	Dec 3	43
Tempil Div. - high-temperature paint.	C	Nov 26	143	Brunei Shell - world's largest natural gas liquefaction plant on Borneo will use U.S. technology.	N	Oct 4	47	thiodipropionic acid ester.	C	Nov 19	97
Tentatively agrees to acquire Bowen Tools.	R	Sept 13	18	Bucher - fined for breach of EEC antitrust regulations.	N	Aug 2	28	Cartex Corp. - chemical control used to increase production rate.	Dec 3	51	
Billiton-M&T Chemical Industries - acquisition of Billiton's share by M&T Chemicals, N.Y.	R	Dec 3	24	Buckley, W.K. Co. - personal hygiene spray market.	Dec 17	81	Carus Chemical - hydroquinone production, sales and outlook.	N	Aug 16	101	
Bishop, William Co. - Days-Ease, automatic cleaners for toilet bowls.	Oct 29	88		Bunker Hill Co. - Pacific Div. acquired by Western Lead Products.	Oct 11	22	Cassella Farbwerke Mainkur AG - EGM antitrust team fines nine European firms for alleged price fixing of aniline dyes N Aug 2-20, N Aug 16-48, N Oct 18-65, R	Nov 5	21		
Bissell Inc. - aerosol rug shampoo.	July 12	26		Sulfuric acid unit at Kellogg lead smelter planned.	R	July 5	19	Sales and profits in '68.	July 12	33	
Blasius Industries - acquires Stalwart Rubber and Adanlock-Jamestown and wraps up a public offering of 335,000 shares of its common.	N	Oct 11	21	Contract to Leonard Construction.	N	Sept 20	33	Catalan Chemical - merger talks with S.A. Cros resumed.	N	Aug 2	20
Sales gains and growth based on new products and external expansion.	Dec 17	25		Zinc prices.	N	Sept 13	53	Catalytic Construction - contract from Goodyear for polyester cord project in Ala.	R	July 12	21
Blaw-Knox - Mobil Chemical's plant at Mt. Pleasant, Tenn., to produce Mopac pesticide.	Oct 11	28		Bunker-Ramo - acquires a majority interest in Usine Metallurgique Dolise.	N	Nov 12	14	Cavedon Chemical - acquired by Great Lakes Chemical.	N	Aug 23	13
Blue Star Line - Du Pont files cargo damage suit.	N	Sept 20	34	Burlington Industries - cutting back its effort on Scott Papers' graft polymerization technique.	N	July 26	52	Celanese Corp. - acetal resin demand picking up.	N	Oct 11	42
Boehringer - fined for breach for EEC antitrust regulations.	N	Aug 2	28	Burns & Roe - parallel in feasibility studies for a proposed agro-industrial nuclear energy complex in Puerto Rico N	Aug 16	34	Chemical plant operators take college course in fire fighting.	Sept 13	59		
Bohrs AB - aromatic acids.	C	Sept 20	100	C & I/Girdler - Contract for IVP nitrogen fertilizer plant.	Sept 13	15	Competition in bidding for control of paint producer Berger, Jensen & Nicholson R Nov 12-32.	Dec 24	18		
Bohrs Industries - aromatic acids.	C	Sept 20	100	Non-noble metal catalyst for nitric acid.	N	Sept 13	68	Ethylene glycol expansion.	N	Nov 19	75
Boise Cascade - acquires control of Ebasco Industries.	N	Sept 13	24	Vistron will use U.S. technology for its urea plant at Lima, O.	N	Aug 2	39	Formaldehyde capacity at Bishop, Tex. expansion.	N	Aug 9	11
Moser, S., at American Forestry Assn. Contradictory policies of government agencies in the housing field?	N	Oct 4	9	C & K Coal - Acquisition by Gulf Resources & Chemical under study.	N	Nov 19	34	Konam N.V. 50% interest to be sold to KZO.	Oct 4	15	
Bolivian Gulf Oil Co. - Bolivian government orders BGO to provide the country with free natural gas for domestic consumption for 10 years.	N	Sept 13	24	CIL - profits up.	Nov 12	21	National Distillers claims Celanese infringed its VAM patent.	Nov 19	39		
May lose some of its natural gas concessions.	N	Oct 18	65	CPC International - Duryea: first commercial product based on high-lysine corn being test marketed in Cali, Colombia.	N	Aug 2	39	Oil and gas business will be sold to Union Pacific RR.	N	Sept 6	9
Natural gas pipeline and oil installations nationalized.	N	Oct 29	49	Justice sues Ciba, CPC over drug patents, licensing deals.	July 19	23	Operation Breakthrough bidding.	Dec 24	22		
World Bank loan will cover half the cost of constructing pipeline to deliver gas to Argentina's Gas del Estado.	N	July 12	25	Methyl glucoside and methyl glucoside-based polyethers plant at Argo, Ill. R	Dec 24	26	Pentaerythritol capacities.	N	July 12	29	
Argentine government will assume guarantees to permit resumption of work on pipeline.	Dec 24	39		OTT Chemical see under name			Plastics operations expansion.	N	Oct 4	9	
Bolivian State Oil Co. - World Bank loan will cover half the cost of constructing pipeline to deliver gas to Argentina's Gas del Estado.	N	July 12	25	CRA Inc. - FTC charges producers of petroleum coke with restraint of trade.	Dec 17	25	Poromerics: many starters, few finishers.	N	July 26	43	
Argentine government guarantees to permit resumption of work on pipeline.	Dec 24	39		CTIP - Technip and CTIP talks fall through.	N	Aug 16	101	Trithiodipropionic capacity increase at Bishop, Tex. N Sept 20-34.	Sept 20	43	
Bombardier, Ltd. - sports market - snowmobile recipe.	Dec 24	68		Cable Belt Conveyors - world's largest single-belt conveyor system will be tied into TVA project.	Dec 10	68	Celanese Mexicana - joint venture to build first Mexican nylon feedstock plant.	Aug 2	20		
Bonner & Moore - computer systems for maintenance of instruments for refineries and chemical plants.	Nov 19	108		Cabot Belgium - black masterbatch plant planned.	R	Dec 3	23	Celanese Plastics Co. - hexene copolymer resin.	C	July 26	57
Borden Chemical Corp. - formaldehyde processing licensing competition.	Nov 19	79		Cabot Corp. - acquisition of UC's Stellite operations.	N	Dec 24	17	HDPE resin for bottles.	Aug 9	29	
Packaging film capacity at Compton, Calif., doubled.	R	Dec 17	26					Central Farmers Fertilizer Co. - Gain, Robert discusses distribution costs.	Dec 17	51	
Solidifying its position as No. 1 U.S. formaldehyde producer and beefing up methanol capacity.	Aug 23	19						Central Solvents & Chemicals - acquisition of Southern Solvents & Chemicals.	R	Aug 23	22
Styrene-butadiene latex production capacity to be tripled.	N	Dec 3	10					Central Soya - acquisition of Rigo Chemical.	R	Aug 30	16

N.V. Chelaro, Ltd. - Amsterdam court orders Centrale Suiker Maatschappij and Suikerunie U.A. to stop advertising "unfounded, destructive criticism" of cyclamates	N	Aug	30	39	CIDIA - Dow picks Chemico as prime contractor for its \$120-million petrochemical complex in Argentina	N	Sept	13	24	Petrochemical Dept. - rust-inhibitors; C RP-1 for Apollo 11	N	Sept	20	103
Chem Systems Inc. - methanol markets will change drastically says Kinsella	N	Dec	24	57	Cie. de Construcción Mecánica - Indian heavy-water plant	N	Oct	11	56	Restructuring of corporate divisions and realignment of executive responsibilities, including election of a president and chief executive officer okayed	N	Aug	30	15
Mitchell's proposal for a big new facility in Australia discussed at AICE meeting	N	Sept	6	41	Cie. Francaise de Raffinage - Soc. Industrielle de Polyolefines see under name	N	Nov	12	30	Tarragona refinery-ethylene project bids	R	Nov	12	29
Resorcinol process	N	Oct	11	55	Cie. Francaise des Petroles - expansions planned with SNPA	N	Nov	12	30	Uranium complex in southern Texas	R	Dec	24	26
Chemalloy Minerals Ltd. - Tantalum Mining Corp. of Canada see under name	N	Oct	29	49	Soc. Industrielle de Polyolefines see under name	N	Nov	12	29	Wayne Glen new president	N	Aug	30	15
Chemcell Ltd. - oil and gas business expansion; will acquire Bralorne Oil and Gas	N	Oct	29	49	Tarragona refinery-ethylene project bids	N	Nov	12	29	Continental Products Co. - Odessa, Tex., to be found of learning or found of oil?	N	Nov	5	21
Profits up	N	Nov	12	21	Cie. Francaise des Produits Chimiques - Shell-urea adduct plant at Berre, near Marseilles, to produce linear paraffins planned; wax cracker olefin capacity at Berre will be increased	N	Aug	2	20	Conzinc Rio Tinto of Australia - nickel projects in Australia	N		5	32
Sales and profits, first-half '69	N	Nov	16	38	Cincinnati Gas & Electric Co. - nuclear power plant on Ohio River, near Moscow, O. planned	R	Sept	27	18	Coppe-Rust - contractor for units for Rumanian fertilizer complex	N	Aug	2	22
Chemotron Corp. - Candee, C.C., president of newly formed Chemicals Group: Reorganizer finds little time left for relaxing	N	Aug	9	41	Cities Service Co. - acquisition of General Technologies Corp.	R	Aug	30	16	Third urea plant in Rumania	N	Aug	12	33
Cardox Div. - carbon dioxide plant near Morris, Ill.	R	Oct	18	34	Argentine office boomed	N	Dec	3	20	Copper Range - Copper prices	N	Aug	9	28
Deep wells are catching on as a way of disposing of chemical wastes	N	Aug	2	40	Atlantic Richfield shares to be sold	N	Oct	29	26	Corco-Hercules - para-xylene Puerto Rican plant will be expanded	N	Aug	23	60
National Cylinder Gas Div. - Mt. Vernon, Ind. plant starts producing oxygen, nitrogen and argon	R	Aug	23	22	Natural gas liquids complex at Mont Belvieu plans	N	Sept	20	38	Corn Products Co. - see CPC International	N	Aug	2	22
Lawsuits charging antipollution regulations were violated	N	Aug	23	37	Polymer Div. awards Fluor Corp. construction contract for Lake Charles, La. PE plant	R	Aug	23	22	Corning Glass International - plant in Bucharest to manufacture tv tubes	N	Aug	2	22
Sun Chemical's takeover bid: rebuffed but still wooing	N	Sept	13	16	Clarino Sales Corp. of America - Promerics: many starters, few finishers	N	July	26	43	Corning Glass Works - Photochromic glass may be the basis for computer components	N	Aug	30	39
Chemical Commodities Inc. - phosgene traffic halted by U.S. DOT	N	Sept	20	38	Clarino, shoe-upper material exhibited at L & A exposition	N	Nov	19	76	Photocromatic glass for information storage and display devices	N	Sept	20	117
Chemical Construction Corp. - Chemico Basic Corp. formed July 5-46	R	Sept	27	18	Clopay Corp. - acquisition of Inmont's copying products business	N	Nov	5	14	Cosmodyne Corp. - lawsuits charging antipollution regulations were violated	N	Aug	23	37
Contractor for Dow's \$120-million petrochemical complex in Argentina	N	Sept	13	24	Coca-Cola Co. - evaluating plastic bottles made from a material named LOPAC	N	Nov	12	19	Courtaulds Canada Ltd. - Cornwall, Ont., continuous filament rayon yarns production will cease	N	July	12	29
Contract for Du Pont's nitric acid plant at Repauno Works, Gibbstown, N.J.	N	Sept	20	33	Coherent Radiation Laboratories - ion laser	C	July	19	32	Staple capacity at Cornwall, Ont., upped	N	July	19	24
Investment cost for urea plant (chart)	N	July	19	62	Cold Spring Bleachery - technical help for Du Pont in developing Tyox	N	July	5	39	Courtaulds Ltd. - American subsidiary will build an acrylic fiber plant at East-over, S.C.	R	Aug	16	42
Chemical Pollution Control Corp. - organized as a processor of waste hydrocarbons from refineries and petrochemical plants between Houston and Texas City	N	Aug	23	37	Colorado Oil & Gas Corp. - FTC charges producers of petroleum coke with restraint of trade	N	Dec	17	25	License for Hercules' high-strength graphite fiber plant	N	Dec	17	69
Chemical Research Consultants - Cyclic compounds	C	Aug	23	79	Columbia Gulf Transmission - Louisiana's offshore gas pipeline	N	July	19	17	Northern Ireland plant damaged by rioters' fire-bombs	N	Aug	30	20
Chemico-Basic Corp. - new company formed to promote chemical system for controlling air pollution	R	Sept	27	18	Columbia Scientific Industries - elemental analyzer	C	Dec	3	43	Polyester fiber plant at Carrickfergus, Northern Ireland planned	N	July	26	14
Plan: a central chemical unit to serve several plants	N	July	5	46	Columbian Carbon Co. - carbon black plant (9th) in Marshall County, W. Va.	R	Oct	18	34	Promerics: many starters, few finishers	N	July	26	43
Chemische Fabrik Kalk - Great Lakes and CFK to swap flame-retardant technology	N	Dec	17	24	Color concentrate prices	N	July	5	32	Sales and profits N July 5-35	N	Nov	26	36
Chemische Werke Huls GmbH - joint venture with VEB-Chemie to double polyolefin capacity	N	Aug	30	32	Ethylene plant at Lake Charles, La.	N	Dec	3	12	Courtaulds (North America) Inc. - Staple plant at Le Moyne, Ala., expansion	N	July	19	24
New plants and expansions planned for next three years	N	Aug	30	32	Petrochemical plant in either Port Elizabeth or Durban, S. Africa considered	R	Dec	24	39	Cresco Fertilizers - Agro Holdings will not exercise its option to buy an interest in CF	R	Dec	17	40
Sales for first-half increased 18.7%, to \$166.6 million	N	Aug	16	48	Columbus and Southern Ohio Electric Co. - nuclear power plant on Ohio River, near Moscow, O. planned	R	Sept	27	18	Merger with Austral-Pacific due soon	N	Nov	19	114
Sales for first 10 months of '69; expansion plans	N	Nov	26	36	Combustion Engineering Inc. - Dolomite injection process designed for Union Electric	N	Dec	3	46	Crompton & Knowles - Althouse-Tertre see under name	N	Aug	2	20
Soc. Industrielle de Polyolefines see under name	N	Oct	4	34	Sulfur from stack gas: which process is best?	N	July	5	46	Cross, S.A. - merger talks with Catalan Chemical resumed	N	Aug	2	20
Chemolux - fertilizer exports going up	N	Oct	4	34	Trying to unload shares in United Nuclear	N	Nov	12	22	Partner with Hooker for proposed vinyl chloride monomer and chlorine-caustic soda project at Puertollano, Spain	N	Aug	9	24
Chemolux - investing \$54 million in a Canadian polish project	N	Aug	2	20	Combustion Equipment Associates Inc. - discharge valves	C	Nov	26	143	Crown Zellerbach - Gaylord Container Div. - G. Keith Provo discusses waste problems at Natl. Conference on Packaging Wastes	N	Oct	4	44
Chemplex Co. - HDPE resin for bottles	N	Aug	9	29	Oxygen analyzer	C	Dec	24	54	Injection-molding plants planned in Glassboro, N.J. and Calif.	N	Aug	2	9
Chemtex Fibers - contract for Snia Viscosa's facilities expansion	R	Dec	24	39	Commercial Solvents - FDA okayes market of Ralgranoabolic agent for feedlot steers	N	Nov	26	134	Rights to a Japanese "polyolefin paper" process obtained	N	Dec	10	67
Nylon plant in Madhya Pradesh, India	N	Sept	6	24	Methanol prices N Sept 6-33	N	Sept	13	53	Cuban American Nickel Co. - Amax to purchase Port Nickel refinery at Braithwaite, La.	R	Aug	30	16
Polyester fiber plant in India	N	Sept	6	24	Sodium glutamate prices	N	Oct	4	37					
Cherokee Nitrogen Co. - non-noble metal catalyst for nitric acid	N	Sept	13	68	Nitroparaffin plant at Sterling, La., doubles capacity	R	Nov	12	22					
Chesapeake Instrument Corp. - Ultrasonic Solution Analyzer to measure solids contents of solutions and suspensions	N	July	5	44	Pentaerythritol capacities boost N July 12-29, N Aug 2-27	N	Sept	6	33	DMS, Inc. - "intelligence" service for 150 federally funded civil programs available	N	Oct	11	22
Chevron Oil - Perth Amboy, N.J. accuses CO of letting its refinery emit "cabbage-like odors"	N	Aug	16	94	Commonwealth Edison - Chicago files antipollution suit	N	Oct	11	55	Dai Nippon Ink & Chemicals - petroleum-based SCP products	N	Aug	2	42
Chevron Research - petroleum-based SCP products	N	Aug	2	42	Commonwealth Refining - acquisition of Petroleum Marketing Corp.	N	Nov	26	22	Breakthrough bidding	N	Dec	24	22
Chiba Butadiene - butadiene extraction plant	C	Sept	13	29	Aromatics plant startup in Puerto Rico will disrupt domestic prices, says Pres. Casey	N	Aug	23	60	Darrill Industries - acquires Armour Dial's synthetic detergent manufacturing and distribution operations in Chicago	N	Dec	3	9
Chinese Petroleum Corp. - petroleum-based SCP products	N	Aug	2	42	Penuelas plant starts up	N	Nov	5	30	Dart Industries - acquisition of Nappe-Smith Mfg.	N	Dec	24	18
Chris-Craft Industries - DOT suit	N	Oct	29	31	Puerto Rico's Penuelas refining complex expansion	N	Oct	4	9	Acquisition of Southeast Latex, Southeast Chemical & Plastics' subsidiary	R	Oct	18	34
Chrysler Corp. - Justice Dept. settles its antitrust suit against major auto makers	N	Sept	20	33	Commonwealth United - Dart Industries' Rexall div. merger plans terminated	R	Aug	16	42	Acres in Kern County, Calif., bought for possible development	R	Oct	29	35
Cia. Espanola de la Penicilina y Antibioticos - synthesis for a new and unusual antibiotic called phosphonemycin, effective against bacteria in animals reported	N	Oct	11	55	Consolidated Biomedical Laboratories - acquired by Rohm & Haas R Nov 5-21, R Consolidated Gas Supply Corp. - Cryogenic recovery of liquid hydrocarbons from natural gas has replaced oil absorption in W. Va., N Nov 5-35	N	Nov	12	50	Fiberfil Div. - glass-reinforced nylon 3M plans to acquire River Labs, ethical drug division	N	July	19	26
Cia. Espanola de Minas de Rio Tinto - IQA see Industrias Quimicas Asociadas UEE merger July 19-48	N	July	26	27	Consolidated Natural Gas Co. - cryogenic plant to separate natural gas liquids at Hastings, W. Va.	N	Nov	12	50	Acquisition okayed	N	Nov	5	14
UEE-Rio Tinto merger: Europe's mergers make problems	N	Aug	30	31	Continental Engineering - Tanzania Fertilizer orders NPK fertilizer plant	N	July	5	34	Merger in process of being wrapped up	N	Dec	3	10
Cia. Generale del Magnesio - synthesize magnesium oxide from sea water plant at Syracuse, Sicily, to be built	N	Nov	19	113	Continental Oil - acquires a 50% working interest to explore in the Republic of Equatorial Guinea, West Africa	R	Dec	17	26	PE resin prices	N	Aug	30	29
Ciba Corp. - ECW antitrust team fines nine European firms for alleged price fixing of aniline dyes N Aug 2-20, N Aug 16-48, N Oct 18-65	N	Nov	5	21	Agro Chemical Div. attempt at a 10% across-the-board price boost for all fertilizers	N	July	5	31	Retail and franchise division sale to Commonwealth United expected to be completed next month	R	July	19	26
FDA moves to take eight combination diuretic drugs off the market	N	Sept	20	47	Agro Chemical Div. - fertilizer prices	N	July	19	37	Merger plans terminated	R	Aug	16	42
Geigy-Ciba merger: Europe's mergers make problems	N	Aug	30	31	Chemical Div. - Howard Blauvelt, new president	N	Aug	30	15	Davies Young Co. - heavy-duty degreaser Dawn Mining - rehabilitation of mine and mill in Washington	C	Oct	4	15
Merger may be contingent on a U.S. Justice Dept. ruling	N	Sept	13	10	FTC charges processors of petroleum coke with restraint of trade	N	Dec	17	25	Dayton Power & Light Co. - nuclear power plant on Ohio River, near Moscow, O. planned	R	Sept	27	18
Antitrust is tough on Americans too - Viewpoint	N	Nov	5	5	Greek refinery and other industrial plants planned	N	Aug	30	10	Dead Sea Works - polish expansion	R	Dec	24	39
ICI's 82% interest in Ifford acquisition	R	Oct	29	56	Hawaiian refinery planned	N	July	26	14	Delaney & Pettit Industries - Isoform Products Div. acquired by Wilco	R	Dec	3	24
Justice sues Ciba, CPC International over drug patents, licensing deals	N	July	19	23						De Laval Separator Co. - Sludge discharger	C	Sept	20	103
										Delpech Adhesives - acquired by Wilco	R	Dec	3	24
										Delta Projects - Shell's gas processing plant to be built near Cremona, Alta.	N	July	19	17
										Delta Scientific Corp. - analyzer controllers	C	Sept	20	101

(N Newsletter. R Roundup. C Countdown)

Denki Kagaku Kogyo - chloroprene capacity boost	R	Aug 23	35	Low-density PE prices N Oct 18-58	N	Nov 5	30	Old Hickory, Tenn., plant of Typer spun-bonded PP rug backing expansion	R	Nov 30	44
Denki Kagaku Kogyo - chloroprene capacity boost	R	Aug 23	35	Magnesium mill products plants at Russellville, Ark., under construction	R	Dec 24	26	Permasep permeators	R	Nov 30	35
Fluorocarbon plant planned	R	Aug 19	120	Napalm: company loses out on napalm - will bid again	N	Nov 26	30	Pharmaceutical move; will acquire Endo Laboratories	R	Oct 18	33
Polystyrene sale to China	N	Aug 2	20	Operation Breakthrough bidding	R	Dec 24	22	Endo acquisition is one step closer	N	Dec 24	18
Desarrollos Industriales - Monsanto Iberica see under name				Oyster Creek, Tex., phenol capacity to be 400 million lbs by '70 (table)		Sept 20	133	Plans to establish a wholly subsidiary in Australia to replace the Australian branch of Du Pont Far East, a U.S. company	N	Aug 30	20
DeSoto, Inc. - acquisition of Quartzite Creative Corp.; will purchase Kerns Furniture	R	Aug 30	16	Letter - letter to control corrosion in ammonia and hydrogen purification units offered	N	Nov 26	12	PE film plant at Buffalo, N.Y. will be shut down	N	Aug 30	20
Goldman, Sachs makes secondary offering of 700,000 shares	R	Nov 12	22	Participant in feasibility studies for a proposed agro-industrial nuclear energy complex in Puerto Rico	N	Aug 9	33	Pomeroy: many starters, few finishers	N	July 26	37
Deterium of Canada Ltd. - Nova Scotia's Glace Bay heavy-water plant: U.S. team report	N	July 12	43	Polystyrene prices	N	Aug 16	34	President C.B. McCoy says an average 8% yr. earnings growth over the next five years would be "reasonable and attainable"	N	July 26	43
Deutsche Shell - Welbergen, J.C. says German gas use limited	Oct 29	52	Xylene plant at Gordof refinery	R	Dec 17	55	Rhodia acquires 50-acre tract at Brazosport, Tex.	N	Nov 12	14	
Xylene plant at Gordof refinery	R	Aug 16	57	Sewage disposal plant for Cleveland	N	Oct 18	66	Qiana quickens its pace	R	Sept 6	37
Dexter Corp. - Hysol Div. - epoxy compound and resin plants in Japan planned	R	Nov 19	120	Stock offering	N	Oct 5	9	R & D operations: a \$250 million budget; Lenher tells where the money goes	N	Aug 9	11
19-120	R	Dec 17	40	Styrene monomer prices	N	Sept 6	33	Letter - letter	N	Aug 16	5
Diamond Shamrock - anhydrous methacrylate plant in Dallas, Tex.	R	Sept 13	18	2-sulfoethyl methacrylate (SEM), new monomer introduced	N	Sept 6	33	Sodium and potassium silicate prices	N	Nov 19	75
Caustic soda prices	N	Dec 10	53	Texas buildup slowed by strikes	N	July 5	16	Sulfur prices	N	July 19	37
Discount pricing may be eliminated	N	Dec 17	56	Toy Rayon seeking government approval of a patent agreement with Dow for production of P.P.C. continuous-sheet foam	N	July 5	16	Teflon used in dispenser unit for securing lunar samples	N	Nov 26	134
Chlorinated solvents prices	N	Sept 20	109	Triad pipeline project	N	Sept 20	38	TEL and TML prices	N	Nov 26	37
DDT prices	N	July 26	38	1,1,1-trichloroethane - New processes, new antismog rules, give new life to old solvent (tables)	N	Sept 20	38	Thermoplastic combining fluorocarbon and ion exchange properties called XR N	Sept 20	124	
DDT suit	N	Oct 29	31	Dow Chemical Europe - Chlorine-caustic-solvent complex in West Germany planned	N	Aug 9	30	Toluene diisocyanate price	N	July 19	37
Dimensionally stable anodes: work starting to emerge in patent literature	N	Sept 13	67	Ethylene output upped as company bids to become one of Europe's biggest producers	N	Aug 9	30	Urea prices	N	July 19	37
Goodyear charges DS and Mobay are infringing its urethane patents	N	Oct 18	71	Naphtha cracker at Stade or Terneuzen planned N Oct 29-26	R	Oct 29	26	Du Pont International - bond issue placed with major Swiss banks	N	Aug 30	20
Monosodium methyl arsonate prices	N	Sept 13	53	Dow Chemical Financial Corp. - buys about 17,000 acres in Ariz. and Calif. from Bud Antle, Inc.	N	Dec 10	22	Du Pont of Canada - Dacron polyester fiber plant expected to start up in '71 at Morrisburg, Ont.	N	Dec 17	79
Montedison patent suit alleges infringement of polypropylene patent	N	July 5	43	Dow Corning - dimethyl silicone fluids, emulsions and antifoul formulation	N	Oct 29	26	Sales and profits, first-half '69 Aug 16-38	N	Nov 12	21
Oriented polypropylene film prices	N	Nov 5	29	Dow Chemical's domestics in the "red"	N	Dec 10	22	Duriron Co., Inc. - diaphragm compressors	C	Dec 17	79
Plastics Div. - polypropylene operation at Houston expansion	N	Oct 4	9	Selected types of silicon in short supply	N	Dec 10	22	Dutch State Mines - ABS resins plant at Geleen	R	Oct 11	36
PVC compound production capacity at Delaware City, Del., boost	R	Sept 20	43	Silicone price cuts	N	July 5	9	Acrylonitrile capacity to double and will sell hydrogen cyanide by-product	R	Oct 11	36
Proposed \$45-million offering of sinking fund debentures registered	N	July 26	14	Dow Corp. - forms a financial division, Ventures Investment & Finance Co.	R	Dec 3	36	Rohm & Haas - build ethylene plant at Geleen	R	Dec 17	40
Dillingham Corp. - Hawaiian refinery planned	N	July 26	14	Dow Uniquina - anti-air-pollution riots outside titanium oxide plant in Bilbao, Spain	N	Aug 16	88	Linde to build ethylene plant at Geleen	R	Oct 11	36
Dolco Packaging - Dow Chemical's domestics in the "red"	N	July 12	19	Drew Chemical - chemical regeneration of the nickel catalysts used to hydrogenate fats and oils	N	Nov 19	76	Melamine plants and processes - U.S. makers adopt Dutch process to foil import threat (table)	N	July 12	49
Dorr-Oliver Inc. - lopor sewage treatment plant will be installed on top of Pikes Peak near Colorado Springs, Colo.	Aug 30	33	Ducilo S.A. - Argentine office bombed	N	Dec 3	20	Nylon feedstock joint venture in Mexico N Refinery at Geleen, Netherlands planned	N	Aug 2	20	
Dow Badische Chemical Co. - Dow Chemical's domestics in the "red"	N	July 12	19	Acrylic fiber prices	N	Oct 11	42	VCM plant, probably in Limburg province planned	N	Sept 27	24
Phrix Werke see under name				Adiponitrile plant at Sabine River Works (Orange, Tex.)	R	Oct 11	42	WCM plant, probably in Limburg province planned	N	July 12	33
Dow Chemical Co. - aircraft de-icing fluid	C	Nov 19	104	Air-cooler sales begin upswing as fresh-water reserves shrink	N	Aug 16	42	Duval Corp. - Culberson mine is the main element of bid to become a major factor in world sulfur markets	N	Oct 4	12
Anhydrous hydrochloric acid prices	N	Dec 24	58	Anhydrous hydrofluoric acid plant adjacent to sulfuric acid installation at Burnside, La., will be built	N	Aug 16	42	Texas sulphur plant readied	N	Sept 27	44
Argentina: Dow confirms its proposal to build a major ethylene-based petrochemical complex under terms of the country's new "petrochemical promotions" law (table)	Sept 13	29	Army contract to reactivate a TNT plant at Newport, Ind.	R	Nov 12	14	Dynalene Corp. - acquisition of Microbiological Associates	R	Sept 13	18	
Argentina's producers protesting planned \$120-million petrochemical complex in Bahia Blanca	N	Aug 9	25	Canada - Nova Scotia's Glace Bay heavy-water plant: U.S. team report	N	Dec 3	20	Dynalene, Inc. - acquired by Rorer-Amchem	R	Oct 29	35
Bahia Blanca venture delayed	N	July 5	36	Cargo damage suit filed against Blue Star Line and Southern Towing	N	Aug 16	42	Eagle-Picher - lead chemical prices	N	Aug 23	60
Government approves ethylene-based petrochemical complex in Bahia Blanca	N	Dec 10	28	Chlorinated solvent prices	N	Sept 20	109	Eastech Inc. - vortex-shedding flowmeter keeps tabs on process pipelines' fluid pulse beat (diagram)	N	Aug 16	107
Argentina consumer products dept. bombed	N	Dec 3	20	CO. off-gas for Southwest Cryogenics	N	Oct 29	25	"Vortex shedding" new type of flowmeter	N	Aug 9	33
Argentina petrochemical users are resisting Dow's sales efforts	Dec 24	39	Computer planning of instrument maintenance produces savings at Sabine River Works, Tex.	N	Nov 19	108	Eastern Nitrogen - fertilizer complex at Koorang Island, Australia	R	Dec 17	40	
Aspirin and salicylic acid prices	N	Dec 17	55	Corfam and Dorzan, shoe-upper materials, exhibited at L & A exposition	N	Nov 19	76	Eastern Stainless - Linde's new process for making stainless steel will be put to work in modernization of Baltimore mill	N	Nov 5	36
Austral-Pacific see under name				Discontinues final processing of smokeless powder at Carney's Point, N.J., cellulose products plant in the wake of the June 4 blast	N	Nov 19	76	Eastman Chemical Products Inc. - adhesive for aircraft	Aug 9	40	
Australian operations expansion	N	Nov 19	114	Elastomer Chemicals Dept. - fluorocarbon elastomer	Sept 20	117	Cellulose acetate membranes	Aug 30	35		
Bisphenol unit at Texas Div. plant in Fort Worth to be built	Aug 30	16	Explosives Dept. - "conversion-rolled" titanium-clad steel plate, top new contender for use in the fabrication of process vessels	N	Dec 17	25	Chemical Div. - ester alcohol	Sept 20	100		
Butyl styrene	C	Nov 26	143	First commercial-scale reverse-osmosis plant - a water-desalting unit at Plains, Tex.	Aug 30	33	Chemicals Div. - ethylene glycol ethers C	Oct 29	129		
Capital program: \$1.150 billion since '65 (table)	N	Nov 19	40	GM stockholder suit against Du Pont reopened	Aug 23	20	Diocetyl and disodecyl phthalate off-sets prices being terminated	Dec 17	55		
- letter	Dec 17	8	Hard-hitting anti-freeze advertising campaigns are boosting sales; anti-leak formulas at center of a controversy	Dec 24	62	Ecological Science - acquires 70% interest in Seila	R	Hydroquinone production, sales and outlook	N	Aug 16	101
Caustic soda plant in Australia possible	N	Aug 30	20	Instruments Div. - ultraviolet stack gas monitors (table)	Aug 2	31	Eastman Kodak - Carolina Eastman Div. - Kodol polyester unit at Columbia, S.C.	R	Aug 30	16	
Caustic soda prices	N	Dec 10	53	Low-density nylon foam for water safety and flotation products being test marketed in Florida	Aug 30	40	Montedison patent suit alleges infringement of polypropylene patent	N	July 5	43	
Discount pricing may be eliminated	N	Dec 17	56	Methanol prices	N	Sept 13	53	Eaton, Yale & Towne - Research Div. air bags may join seat belts as major auto safety devices	N	Aug 30	40
Cellulose acetate fibers will be offered to other companies interested in reverse-osmosis applications	Aug 30	33	Nomex, high-temperature resistant nylon can be made into work clothes	Oct 29	89	Ekono Assn. for Fuel and Power Economy-Arhipainen, B. discusses black liquor oxidation at TAPPI meeting	Sept 27	52	Ebasco Industries - Boise Cascade acquires control	Sept 13	24
Ceramic foam obtains rights to Selas Corp.'s technology	N	Dec 10	68	Northern Ireland's fiber industry escapes damage during riots	N	Aug 30	20	Ecological Science - acquires 70% interest in Seila	R	Dec 3	24
Chelating agents, ferric chloride and magnesium chloride prices	N	Dec 24	58					Ecology Inc. - N.Y.'s solid waste into fertilizer plant	N	Sept 20	123
Chemico is prime contractor for a \$120-million petrochemical complex in Argentina	N	Sept 13	24					Ecotech Research - Z-M process for cleaner effluent, hydrolyze the heavies (table)	Sept 13	63	
Chlorinated solvent prices N Sept 20-109	N	Dec 17	55					- letter	Oct 11	5	
Chlorine prices	N	Sept 20	109					Ekono Assn. for Fuel and Power Economy-Arhipainen, B. discusses black liquor oxidation at TAPPI meeting	Sept 27	52	
Doan, Herbert, at ACS meeting: "Society takes action only when gangrene sets in"	Sept 20	118						Elastomer AG - BASF acquires a 50% interest	N	July 5	35
Domestics in the "red"	N	July 12	19					Elcor Chemical - Campbell: financial fortunes won't improve until Rock House is onstream	Nov 26	27	
Environmental Control Systems Group - Thomas Becnel at Natl. Conference on Packaging Wastes says "the ultimate answer must be incineration"	Oct 4	42						Elemental sulfur-from-gypsum plant is having trouble	July 12	43	
Ethylene diamine at Terneuzen, Netherlands, to be doubled	R	Nov 12	30					Financial problems due to startup troubles at Rock House, Tex. plant	N	Oct 29	25
Ethylene glycol expansion	N	Nov 19	75								
Ethylene plant for Gulf Coast may be in planning stage	Dec 3	12									
European borrowing up	July 12	36									
Glycol ether propylene prices	N	Dec 17	55								
Great Salt Lake complex (map)	Sept 6	15									
Honolulu plant to make Polymulch PE mulching film for sale to pineapple industry and Hawaiian converters	R	Aug 23	22								
Laminated and coated packaging materials prices	N	Aug 9	27								

Joint-venture arrangements for exploration of company's mineral leases	Nov 26 27	Ethyl-Dow Chemical Co. - Dow Chemical's domestics in the "red"	July 12 19	Fertilizer Corp. of India - Montecatini-Edison technology will be used in two or more fertilizer plants	Dec 3 23
Electric Reduction - resumes output at phosphorus plant in Newfoundland July 12-37	July 19 51	Ethylene dibromide plant at Freeport, Tex., will close; Magnolia, Ark., plant onstream	Aug 9 27	Fiber Industries, Inc. - polyester fiber plant near Durham, N.C. plans shelved	Aug 16 34
Electricite de France - American-design nuclear power plants, which use enriched uranium, are better than plants using natural uranium as their fuel says Marcel Boiteux	Nov 5 33	Etino Quimica - VCM unit at Martorell planned - merger with Warner-Lambert	Aug 9 24	Salisbury N.C. expansion	Sept 13 18
Electro-Chemical Industry Co. - hot-water-soluble PV alcohol film will be marketed in the U.S.	Nov 19 89	Expando Seal Tools, Inc. - gate-valve tool	Aug 16 110	Fiberboard Corp. - Antioch, Calif., mill improvement - polyester fiber capacity increased	July 19 26
Electro Flex Heat, Inc. - temperature controller	Oct 29 129	FMC Corp. - American Viscose adds 100-million-lbs. rayon staple capacity	June 19 24	Fields Plastics & Chemicals - agrees to acquire all the outstanding common stock of Knickerbocker Case	July 19 26
Electrochemical Corp. - rechargeable alkaline battery system that would be small enough and reliable enough to be implanted as a heart pacemaker	Oct 4 26	Chlorine-caustic price-fixing suit: FMC cleared of collusion	Sept 6 16	Fine Organics - Olin Corp. merger talks	Sept 27 9
Electroclor - Argentina's producers protesting Dow's planned \$120-million petrochemical complex in Bahia Blanca	July 5 36	Inorganic Chemical Div. - ferrite-grade strontium carbonate	Nov 26 143	Finetex Inc. - butyl benzoate	Sept 20 100
El Paso Natural Gas - Sonatrach contract for importation of Algerian LNG into U.S. over a 25-year period	Oct 18 26	Niagara Chemical Div. - new product particularly effective on flying insects	Dec 17 82	Finetex Tire & Rubber - acquisition of MCA	July 26 14
Triad pipeline project	Sept 20 38	Niagara Chemical Div. - Rhine River fish kill blamed on barge's spillage of endosulfan insecticide	July 5 18	Acquisition terms altered	Aug 30 10
"World's largest" LNG project will cost almost \$1 billion, is slated to ease eastern U.S. gas supply problems	Oct 18 26	Officials still unable to explain the source	July 19 52	Computer/Optimizer computerizes recipe formulation	Oct 18 71
Emerson & Cuming - Dielectric Materials Div. - epoxy-casting resin	Dec 3 43	Petro-Tex Corp. see under name	Oct 4 37	Rayon-rayon bias belt tires	Oct 11 41
Emery Industries - fatty acid products' prices	July 5 31	Soda ash at Green River, Wyo., expands	Dec 24 25	Urethane foam for aircraft fuel tanks	Aug 9 40
Emko Co. - personal hygiene spray market	Dec 17 81	Fairchild Hiller - Republic Div. - FRP for planes	Aug 9 40	Fisher Governor Co. - Monsanto merger	Aug 23 22
Empire State - shoe-upper material, Al-crosa, exhibits at I. & A.I. exposition	Nov 19 76	Fairfield Technology Corp. - piezo-electric fluid metering valve: "Moon valve" seeks down-to-earth CPI process control jobs	Aug 2 36	Fisher Scientific - SDMA new, safe, organometallic hydride	Sept 20 123
Endo Laboratories - Du Pont now in drugs; will acquire Endo Labs.	Oct 18 33	Falconbridge Nickel Mines Ltd. - nickel shortage forces up prices, spurs look for new sources (tabled)	Nov 5 31	Fluid Particle Research, Inc. - formed by 27 companies working together to establish a cooperative R & D enterprise	Oct 11 28
Endo acquisition is one step closer	Dec 24 18	Strike settlement expected soon	Nov 26 119	Fluor Corp. - air-cooler sales begin upswing as fresh-water reserves shrink	July 5 22
Engelhard Minerals & Chemical - Bolivian interests may be affected by military coup	Oct 18 66	Sudbury, Ont., mines and smelter closing complicates nickel situation	Aug 30 29	Construction contract for City Service's Polymer Div. PE plant at Lake Charles, La.	Aug 23 22
Palladium prices	Aug 9 28	Fanssteel Inc. - ceramic coating able to stand up to high temperatures and destructive atmosphere	Oct 18 72	Supporting units for Northern Petrochemical ethylene oxide plant	Nov 26 120
Platinum prices	Nov 12 38	Farmenfabriken Bayer AG - acquires 80% interest in Norsbroen and Sjogren	Nov 12 32	Fluor Nederland - contract for Shell xylene plant at Gordof	Aug 16 57
Engineers, Inc. - Dr. Chemical's Boonton, N.J. plant	Dec 10 63	Dormagen unit to produce chlorine	Oct 11 36	Fluor Ocean Services - barges to develop more efficient construction equipment for use in the Gulf of Mexico	Aug 9 34
ENI see Ente Nazionale Idrocarburi		ECM team fines nine European chemical firms for alleged price fixing of aniline dyestuffs N Aug 2-20, N Aug 16-48, N Oct 18-65	Nov 5 21	Fluorodynamics Inc. - fluorocarbon-lined equipment	Aug 2 35
Enjay Chemical Co. - butyl rubber for man-made lake liner in Hawaii	Nov 26 126	European profits rise (table)	Oct 11 26	Folienwerke Saar - Hoechst and Saarbergwerke joint venture	Aug 16 57
Low-density PE prices	Dec 24 58	Isocyanates plant at Newcastle, Australia planned	Oct 29 49	Foote Mineral Co. - chrome boycott against Rhodesia forces growing dependence on Russian ore July 12-37	Oct 29 106
Enrich, A. Co. - phosphatic fertilizer project for Huehla, Spain, possible	July 12 33	Leverkusen capacity additions for phthalic anhydride, trimethylol propane and aniline	Aug 9 24	Metallurgical products prices	Dec 17 56
Ente Mineraria Siciliana - SARP see under name		Sales up	Aug 9 26	Ford, Bacon & Davis - Commercial Solvent's nitroparaffin plant at Sterlington, La.	Nov 12 22
Ente Nazionale Idrocarburi - customer for Russian natural gas	Dec 17 32	Worldwide sales expected to increase	Nov 5 24	Ford Motor Co. - Justice Dept. settles its antitrust suit against major auto makers	Sept 20 33
Electrochemical complex in Calabria	Dec 17 40	Sulfur price drop leads to switch to elemental sulfur (from pyrites) for proposed sulfuric acid plant at Antwerp	Sept 27 43	PEG-BB tire abandoned because of ride harshness	Oct 11 41
Environmental Services Inc. - water aerator	Aug 2 35	Teaming with Shell to build diisocyanate plant in Belgium	Dec 3 20	Program "to minimize pollution from products and plants in the shortest possible time"	Dec 17 23
Envirotech Corp. - acquires Arthur G. McKee's process machinery division	Nov 19 44	Technical exchange arrangement in the plastics field with Russia negotiated	Nov 19 113	Rubberized automobile bumpers	Nov 5 21
Equitable-Higgins Shipyards Inc. - creation of a foreign trade subzone for New Orleans upheld by a federal court	July 5 24	U.S. investment plans	Nov 5 25	Sales (including imports) will decline next year	Dec 17 26
Erpac S.A. - Hercules to acquire a 50% interest	Nov 12 41	West Germany's chemical industry boom. N Will seek \$75 million in the international money market to cover financial requirements of affiliated Bayer Group	July 19 45	Sodium-sulfur battery for electric cars	Nov 19 89
Escambia Chemical Corp. - Air Products & Chemicals moving further into chemicals	Aug 40 41	Farbwerke Hoechst AG - acquisition of Berger, Jensen & Nicholson R Nov 12-52, N Nov 26-36	Nov 5 14	Forestal Industries - Cruikshanks Div. acquired by M & T Chemicals	Nov 12 32
Methanol capacity at Pensacola, Fla., to be doubled	Nov 5 14	Antibiotic, Flavomycin, for use in animal feed	Dec 24 18	Fosfatolapogel Aktienbolaget - Unifos Kemi see under name	
Essex Chemical - Consumer Div. - pine scent for synthetic trees	Dec 24 68	ECM team fines nine European chemical firms for alleged price fixing of aniline dyestuffs N Aug 2-20, N Aug 16-48, N Oct 18-65	Nov 5 21	Foster Grant Co. - earnings for '69 reported	Dec 10 22
Sulfuric acid prices N July 12-29	July 19 37	IQA see Industries Quimicas Asociadas investment plans in U.S.	Oct 11 26	Polystyrene and monostyrene expansion at Baton Rouge, La., plant	Dec 10 22
Eso Chemical Co. Inc. - ag chem cuts: three Caribbean units sold to Grace, and liquid fertilizer blending plant at Warboys, England, to close	Nov 26 27	Mitsui will import Marton cosmetics	Nov 5 25	Foster Wheeler Corp. - low-temperature, explosion-forming method	Sept 27 58
Argentine office bombed	Dec 3 20	Negotiating with the Reed paper group for possible joint ventures	Nov 26 36	Foster Wheeler Italiana - contract for fertilizer complex at Potenza, Italy	July 12 33
French affiliate will likely show a net loss for '69	Dec 17 32	Northern Ireland's fiber industry escapes damage during riots	Aug 30 20	Foxboro Co. - process-control electrodes keep eye on ions	July 26 49
Eso Chimie - will likely show a net loss for '69	Dec 17 32	Plastic film joint venture in Neunkirchen/Rhine River fish kill blamed on barge's spillage of endosulfan insecticide	July 5 18	Franklin Institute Research Labs. - fire-proof resin is chief binding agent in a paint	July 12 27
Eso Research & Engineering - building a basic research program for profit: Cross-breed basic and applied research. Government contract to answer the question: Why has the USSR not cashed in on its outstanding theoretical studies in catalysis? Conclusion	Oct 11 48	Officials still unable to explain the source	July 19 52	Piping waste 100 miles to sea - quick "save" for Delaware basin?	July 19 65
Petroleum-based SCP products	Sept 20 117	Sales in the first half '69	Oct 18 65	Freepoint Sulphur Corp. - Australian nickel projects	Nov 5 32
Radiation-induced process for making linear sodium alkane sulfonate licensed to Hodo-gaya Chemical, Japan	Dec 10 67	Sales outlook	Aug 16 57	Chemical Div. - New techniques to cut costs of bulk-handling	Nov 12 34
Sulfuric acid recovery system studied	Dec 3 46	URANIT see under name	Aug 16 57	Sulphur production cutback	Sept 27 44
Eso Standard Oil Co. - LPG for Japan	Oct 29 51	West Germany's chemical industry boom	July 19 45	What next for the big sulfur producers?	July 26 17
Singapore expansions planned	Sept 27 24	Yugoslavian joint ventures	Nov 19 113	French Atomic Energy Commission - Limeil Weapons Research Center: pulsed laser beam - a step toward control of nuclear fusion	Sept 27 57
Tarapona refinery-ethylene project bids	Nov 12 29	Farma-cutica Boliviana - being readied in Bolivia	July 5 32	Furace Plastics - Prepregs in aircraft construction	Aug 9 37
Eso Standard Sekiyu - applies for LPG from Australia	Oct 29 51	Federal Pacific Electric - U.S. Smelting merger plans terminated	Aug 16 42	Furukawa Chemical - refinery and petrochemical complex in Kyushu	Dec 17 40
Ethyl Corp. - alpha-olefins plant at Pasadena, Tex., will cost more than \$10 million	Oct 18 26	Felix AB - protein product research	Aug 2 44	Fusecolor Corp. - acquired by Fusion Systems	Aug 30 16
Bromet see under name		Ferguson, H.K. Co. - contract from TVA for urea solution unit	July 12 21	Fusion Systems - acquisition of Fusecolor Corp.	Aug 30 16
Chlorinated solvent prices	Sept 20 109	Ferrero Corp. - Conin Div. - Prepregs in aircraft construction	Aug 9 37		
Commercial Development Div. - alkyl phosphorous intermediates	Nov 19 97	Vinyl plastic stabilizer prices	Aug 23 59		
Discusses what would it cost to reduce or eliminate lead in gasoline	Dec 24 71	Fertilizantes del Istmo Centroamericano - Mexico's Guano goes south: bulid's fertilizer unit in Guatemala	Aug 30 32		
Metallic sodium prices	Nov 19 75				
Methyl chloride prices	Nov 19 75				
Putting new push into Ethyl - report Anthony J. Piaro (charts & table)	Aug 23 47				
TEL and TML prices	Aug 26 37				
1, 1, 1-trichloroethane - New processes, new antismog rules, give new life to old solvent. (tables)	Aug 9 30				

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Industrial products plant at Westerly, R.I., expansion..... R	Sept 13 18	Epichlorohydrin elastomers capacity at Avon Lake, O. boosted..... R	Oct 29 35	Port Arthur, Tex. ethylene plant..... Dec 3 12
Lummas formaldehyde process used at Calvert City, Ky. plant..... N	Nov 19 79	Gulf will sell shares of Goodrich common..... R	Nov 12 22	Protein concentrates made from petroleum will sell shares of Goodrich common..... R
Monomer, polymer, solvents and intermediate prices..... N	Oct 29 106	Heat-reactive latex..... C	Aug 16 110	Gulf Resources & Chemical - acquisition of C&K Coal will make possible entry into the coal business..... N
Myers, Robert, new vice president of R&D: A musician aims to give research a new beat.....	Nov 19 128	Iranian petrochemical complex..... R	Sept 20 139	Bunker Hill see under name
Paper product dyes..... C	July 26 57	New effluent-treatment system for PVC plant near Pedricktown, N.J.....	Oct 18 105	Mexican authorities deny receiving a request for rulings on the proposed sales of GR&C's Mexican sulfur subsidiaries to Inversiones Azufreras..... N
Surfactant prices..... N	Sept 13 54	Offering sinking fund debentures N Nov 5-14..... R	Nov 19 44	Mexican government "may be thinking of confiscation" of GR&C's sulfur properties, says R. Allen..... N
Textile Chemical Div. - white lubricant for finishing corduroy fabrics..... C	Aug 16 110	Poromerics: many starters, few finishers Aztran, shoe-upper material exhibited at L&AI exposition..... N	July 26 43	Mexican sulfur operations will be sold to Inversiones Azufreras including terminal at Tampa, Fla..... N
Gas del Estado - World Bank loan will cover half the cost of constructing pipeline to deliver Bolivian gas to Gas del Estado..... N	July 12 25	Takeover attempt N July 19-17..... N	Aug 2 9	Efforts to sell are stymied..... N
Gazcoan - Algerian LNG due..... N	July 5 29	Goodyear Aerospace - FRP-ceramic composite armor for aircraft.....	Aug 9 40	Styrene plant to be built at Faustina Works near Donaldsonville, La..... N
Geigy Chemical Ciba-Geigy merger: Europe's mergers make problems.....	Aug 30 31	Goodyear Tire & Rubber - Beaumont, Tex. polybutadiene rubber plant expansion N Contract for its polyester cord project to Catalytic Construction..... R	Sept 27 9	
Merger may be contingent on a U.S. Justice Dept. ruling..... N	Sept 13 10	European borrowing up.....	July 12 36	
Antitrust is tough on Americans too - Viewpoint.....	Nov 5 5	Law suits charging antipollution regulations were violated.....	Aug 23 37	
ECM anti-trust team fines nine European firms for alleged price fixing in aniline dyestuffs N Aug 2-20, N Aug 16-48, N Oct 18-65..... N	Nov 5 21	Polysoprene rubber prices..... N	Aug 23 59	
Gelsenberg Benzol - URANIT see under name		Tire and tube prices being boosted..... N	July 5 32	
General American Transportation Corp. - computer systems to trace car movements	July 19 42	Goodyear Systems - Electradex system: coatings are the first commercial application for EGD..... N	Sept 6 47	
General Dynamics Corp., Electric Boat Div. - submarine tanker may haul oil and sulfur out of Canadian Arctic.....	Oct 29 96	Grace, W.R. & Co. - Bolivian interests may be affected by military coup..... N	Oct 18 66	
General Electric Co. - bacteria strains capable of converting useless solid refuse into a high-protein animal fodder.....	Sept 20 114	Buy majority interest in French edible and soap producer Salador..... N	Aug 2 10	
Instrument Dept. - computer station..... C	Sept 20 101	Contract for exclusive, world-wide rights to market TMCC's output.....	Sept 20 112	
Silicone membranes for gas permeation.....	Aug 30 35	Cresco Fertilizers see under name		
Silicone price cuts blasted..... N	Nov 19 76	Davison Chemical Div. - Arcapen system converter employs a special catalyst.....	July 26 28	
Some unions reject revised three-year contract..... R	Dec 17 26	European borrowing up.....	July 12 36	
General Foods - nutrition research stepped up; consolidating existing programs in a new Center for Applied Nutrition..... N	July 19 52	Grace zeroes in on the consumer Meyer Lurie (tables, chairs).....	Sept 13 30	
General Gas - applies for LPG from Australia.....	Oct 29 50	Hampshire Chemical Div. - NTA crystal prices..... N	Oct 11 42	
General Host - Greyhound will acquire from Host its Armour shares..... R	Nov 5 21	Hampshire Chemical Div. - sarcosinates as rug shampoo additive.....	July 12 26	
General Mills, Chemical Div. - polymeric amine..... C	Dec 17 79	Hatco Chemical Div. - diethyl and isodecyl phthalate off-list prices being terminated.....	Dec 17 55	
Deriphat helps solve problems of cleaning leather..... N	July 12 44	Marlene Industries acquisition..... R	July 12 21	
Amino acid appears to have a future in leather.....	Aug 23 67	Peruvian government declares that it will nationalize all major landholdings..... N	Sept 27 44	
General Motors Corp., Cadillac Div. - Hand-hitting anti-freeze advertising campaigns are boosting sales; anti-leak formulas at center of a controversy.....	Dec 24 62	Phosphatic fertilizer prices.....	July 5 15	
Justice Dept. settles its antitrust suit against major auto makers..... N	Sept 6 33	Polymers and Chemicals Div. introduces acrylic terpolymer for exterior latex paints.....	Nov 19 43	
Plastics in new cars.....	Sept 6 13	Purchases three Caribbean fertilizer units from Esso.....	Nov 26 27	
Roche, James sees auto sales dip next year Stockholders suit against Du Pont reopened.....	Dec 24 25	Sells 53% interest in Miller to Philip Morris; PepsiCo files suit.....	N Aug 2 9	
General Nuclear - Humble buying 9,000 acres in Fremont County, Wyo..... N	July 5 9	Grampan Chemical - Rezoning approval will permit company to erect a petrochemical complex at Invergoron, Moray Firth, Scotland..... N	Aug 9 24	
General Sekiyu - aromatics plant planned R General Technologies Corp. - acquired by Cities Service..... R	Aug 30 16	Great Canadian Oil Sands - Fort McMurray, Alta. production report..... R	Nov 19 44	
General Tire & Rubber - poromerics: many starters, few finishers.....	July 26 43	Great Lakes Carbon Corp. - FTC charges producers of petroleum coke with restraint of trade.....	Dec 17 25	
Will pay the government \$50,000 to settle civil claims for alleged violations of the national traffic and motor vehicle safety act..... N	Nov 5 23	Fortafil S-Y new high-strength, high-modulus graphite fiber..... N	July 5 43	
Generale d'Electricite - laser generator: step toward control of nuclear fusion.....	Sept 27 57	Great Lakes Chemical - acquisition of Cavendon Chemical..... N	Aug 23 13	
Genset Corp. - poromeric shoe material, Jentra 3 N Oct 18-71..... N	Nov 19 76	Acquisition of Lunelvale Products..... R	Nov 5 21	
- letter.....	Nov 26 12	Acquisition of Microseal Corp. - Bromel see under name..... R	Sept 13 18	
Geometrics Inc. - Operation Breakthrough bidding.....	Dec 24 22	Bromine maker is dead-set on diversification; future growth will come from new chemicals (charts).....	Nov 19 53	
Georgia-Bonded - poromerics: many starters, few finishers.....	July 26 43	Germany's Kalk and GLC to swap flame-retardant technology.....	Dec 17 24	
Georgia-Pacific, Crossett Div. - formaldehyde plant uses ICI process.....	Nov 19 79	Great Plain Development Canada - agreement with Hudeco's Bay Oil & Gas for 50% interest in 3.7 million acres of oil leases in Canada's Arctic Islands..... N	July 19 18	
Wilson discusses methanol prices and capacity at NAPM meeting..... N	Oct 18 58	Great Salt Lake Minerals & Chemicals - Great Salt Lake: potassium, sodium sulfate (map).....	Sept 6 15	
Getty Oil Co. - Odessa, Tex., to be fount of learning or fount of oil?.....	Nov 5 21	Greyhound Corp. - Armour shares will be acquired from General Host..... R	Nov 5 21	
Philadelphia refinery aviation fuel fire. N Glamore Products Corp. - aerosol rug shampoo, Glamore Power Foam.....	Sept 13 10	Grimm, W.T. & Co. - merger activity in the third quarter drops about 15%..... N	Oct 11 21	
Glanzstoff - acquires a 25.5% interest in Brazil's Polyquimica Textil..... N	Sept 13 24	Merger survey (table).....	July 12 19	
Glas-Graft of California - acquired by Republic Corp..... R	July 12 21	Grumman Aircraft Engineering - plastics for planes.....	Aug 9 37	
Glaverbel - glass that is as strong as steel by VHR process..... N	Sept 13 68	Guanos y Fertilizantes de Mexico - fertilizer unit in Guatemala.....	Aug 30 32	
Glaxo Ltd. - U.K. clamping down on use of antibiotics in feed supplements..... N	Dec 3 45	Gulf Western Industries Inc. - acquisition of New Jersey Zinc Conglomerates investigation started..... N	Aug 9 21	
Goldfield Corp. - Tantalum Mining Corp. of Canada see under name.....		Receives about \$84.5 million for two big chunks of its holdings in Atlantic Richfield..... N	Sept 6 9	
Goldfield Great Canadian Potash - Chemolimpex investing \$54 million in a Canadian potash project..... N	Aug 2 20	Gulf General Atomic - scaling up a high-temperature gas-cooled reactor at Fort St. Vrain, Colo..... N	Dec 17 70	
Goldman Sachs - makes secondary offering of 700,000 shares of DeSoto..... R	Nov 12 22	Gulf Oil (Canada) - Calgary and Moose refineries to be converted to asphalt production..... N	Aug 23 14	
Goodrich, B.F. Chemical & Co. - EPDM: joint development program and engineering studies on a commercial plant at Orange, Tex..... N	Aug 2 39	Gulf Oil Corp. - Bolivian government nationalizes operations of Bolivian Gulf Oil..... N	Oct 29 49	
		Contract to Stearns-Roger to expand its low-density PE plant at Orange, Tex. R HDPE plant at Orange, Tex. will sell a resin for milk bottles.....	Nov 12 22	
		Odessa, Tex., to be fount of learning or fount of oil?.....	Nov 5 21	
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				Hajolata y Lamina, S.A. - Iranian plant for direct reduction of iron ore possible. N
				Halcon International - Propylene oxide project near Rotterdam.....
				Plant will be Europe's largest..... R
				The Hanna Mining Co. - St. Joseph Lead merger plans terminated.....
				Happy Co. - air-cooler sales begin upswing as fresh-water reserves shrink.....
				Harima Kasei Kogyo - adhesives plant joint venture..... N
				Harlan, Belke and Meyers - partner in Hercules housing program..... N
				Harshaw Chemical Co. - strike settled.....
				R Harvey Aluminum - Martin Marietta exchange offer for outstanding shares of Harvey N Nov 5-14..... N
				Harvey-Westbury Corp. - electronic gas checker..... C
				Havens International - feedback on reverse-osmosis - letter.....
				Heinrich Koppers - team in technology formed..... N
				Hercasa - Nicaraguan chlorinated insecticide plant remained in operation N
				Hercules Gallon Products - Peabody Gallon Corp. new name reflects the merger of HGP and Peabody Engineering..... N
				Hercules, Inc. - acquisition of a 50% interest in Erpac S.A.....
				Acquisition of Radiant Color..... R
				Agreement to take about 200 million lbs./year of the propylene Northern will merchant discussed..... N
				DMT capacity at Hanover plant, Wilmington, N.C. increased.....
				Hercasa see under name
				High-strength graphite fiber plant in Bowling Green, Md..... N
				Housing: contract proposal based on design plans in Operation Breakthrough submitted..... N
				Joint venture with Teijin to make DMT in Japan..... R
				Methanol plant at Plaquemine, La. starts production..... N
				Neofil see under name
				New Enterprise Dept. looms large in the company's future growth.....
				Nitrogen tetroxide for Apollo 11..... N
				Operation Breakthrough bidding Partnerships to supply chemicals and plants to ease European industries' pressing water pollution woes.....
				Paste sizes used by the paper industry prices..... N
				Pentaerythritol capacity upped N July 12-29, N Aug 2-27..... N
				Pentaerythritol prices..... N
				Phenol-from-cumene process..... N
				Rosin prices..... N
				Wax emulsions prices..... N
				Heredia y Moreno - equipment consortium.....
				Hex Industries Inc. - cryogenic vaporizer C
				Hexcel Products - nylon-epoxy honeycomb core in aircraft construction.....
				High Voltage Engineering Corp. - Sekisui Chemical and HVEC to form a U.S. company to engage in production and sale of irradiation cross-linked PE foam..... R
				Hitachi Shipbuilding - negotiating with the South Vietnamese government for the export of nitrogenous fertilizer plant..... R
				Hodgman Rubber Co. - Butyl rubber for Hawaiian man-made lake liner.....
				Hodogaya Chemical - Esso Research licenses radiation-induced process for making linear sodium alkane sulfonate N
				Hohen Oil - urea-melamine adhesives plant and formalin unit in Osaka planned..... R
				Hokko Chemical Industry - agricultural chemicals in Indonesia.....
				Diocetyl tin oxide capacity boost..... R
				Home Oil of Canada - gas from Britain's biggest onshore field will be tied into the national grid..... N

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Kanagafuchi Chemical - paraffin joint venture with Maruzen planned	R	Aug	5	34	Leeds & Northrup - infrared stack gas monitors (table)	N	Aug	2	31	Marathon Oil - Kenai, Alaska, natural gas liquefaction plant now fully operational	N	Aug	23	59
Petroleum-based SCP products	R	July	2	42	Philadelphia air-monitoring system	N	Nov	26	133	Marcona Corp. - Marconoflo technique in moving iron ore from Peru to the U.S.	N	Aug	2	39
Kansai Paper Mfg. Co. - U.S. Plywood-Champion will supply Alaskan unbleached pulp and lumber		July	12	13	Leming Chemicals - acrylate monomer joint venture with Rohm & Haas		July	12	20	Marion Laboratories - acquisition of International Pharmaceutical and Certified Labs.	R	Nov	5	21
Karbridge Co. - Dow Chemical's domestics in the "red"		July	12	19	Teesside, England planned	R	Oct	29	56	Acquisitions completed	R	Dec	17	26
Kashima Ammonia - Kashima complex: Japan builds a \$500-million petrochemical project - its biggest		July	5	34	Leonard Construction - contract for Bunker-Hill's sulfuric acid plant	N	Sept	20	33	Marketing Survey & Research - job-applicant matching test called "Multiple Personal Inventory"		Sept	20	40
Kashima Chemical - Kashima complex: Japan builds a \$500-million petrochemical project - its biggest		July	5	34	Monsanto Enviro-Chem Systems see under name					Marlene Industries - acquired by Grace	R	July	12	21
Kashima Chlorine & Alkali - Kashima complex: Japan builds a \$500-million petrochemical project - its biggest		July	5	34	Lesson Co. - stretch yarns patent: Court asked to decide relative right of company and 64 licensees		Oct	29	89	Marion Marietta - tender offer for Harvey Aluminum shares Nov 14	N	Dec	24	17
Kashima Kito Kyoenshiden - Kashima complex: Japan builds a \$500-million petrochemical project - its biggest		July	5	34	Libbey-Owens-Ford - acquisition of Woodall Industries planned		Oct	11	28	Maruzen Oil - paraffin joint venture with Kanegafuchi planned	R	July	5	34
Kashima Kito Kyoenshiden - Kashima complex: Japan builds a \$500-million petrochemical project - its biggest		July	5	34	Reflective glass coatings	C	Aug	2	35	Maruzen Petrochemical - butadiene joint venture with Ube Industries in Japan	R	Aug	23	35
Kashima Minami Kyodo Hatsuden - Kashima complex: Japan builds a \$500-million petrochemical project - its biggest		July	5	34	Lilachim - Belgium fatty amines plant planned	R	Dec	3	23	Massengill, S.E. Co. - personal hygiene spray market		Dec	17	8
Kashima Niimi Kyodo Hatsuden - Kashima complex: Japan builds a \$500-million petrochemical project - its biggest		July	5	34	Liljeheimsen Stearinfabriks - Belgium fatty amines plant	R	Dec	3	23	Matheson Gas Products Co. - mass flowmeter	C	July	5	41
Kashima Oil - Kashima complex: Japan builds a \$500-million petrochemical project - its biggest		July	5	34	Lilly, Eli & Co. - U.K. clamping down on use of antibiotics in feed supplements	N	Dec	3	45	Maumee Chemical - consolidated into new Sherwin-Williams division, Sherwin Williams Chemical	R	Sept	27	18
Kashima Vinyl Chloride Monomer - Kashima complex: Japan builds a \$500-million petrochemical project - its biggest		July	5	34	Linde AG - BASF orders the "world's largest" air separator	R	Dec	10	22	McClanahan, David - LPG feedstock shortage is coming (charts)		Sept	20	37
Kauai Corp. - planning housing for permanent residents on Molokai, Hawaii		Nov	26	126	Lindsay, J.W. Construction - contract for Cardinal Protein's Nova Scotia fish protein plant	N	Dec	3	10	McCullough Tool - acquired by National Lead	R	July	12	21
Kayser-Roth - Challenges Leesona stretch yarn patent		Oct	29	89	Lion Armour Co., Ltd. - plans to begin production of nitrogen derivatives		Oct	4	14	Will be integrated into National Lead's Baroid operation	R	July	19	26
Kellogg, M.W. Co. - begins work on Monsanto's phenol expansion at Chocolate Bayou, Tex., complex	N	Aug	16	33	Lipetco - Libyan petrochemical build-up	N	Nov	12	28	McDermott, J. Ray & Co. - contract for Louisiana's offshore gas pipeline	N	July	19	17
Cryogenic recovery of liquid hydrocarbons from natural gas has replaced oil absorption in W. Va.	N	Nov	5	35	Liquid Carbonic - Houston Natural Gas weighs expansion of chemical		Oct	18	32	McDonald Douglas - FRP for plane interiors		Aug	9	37
El Tabazo petrochemical complex	N	Sept	13	15	List Associates - Blacksburg, Va. Brent discusses petrochemical complex in Philippines at AICE meeting		Sept	6	41	McKee, Arthur G. - contract for Amoco's terphenyl plant	N	Aug	16	101
El Tabazo petrochemical complex	N	Sept	13	15	Lithium Corp. - Great Salt Lake complex (map)		Sept	6	15	CTIP and Technip talks fall through	N	Aug	16	101
El Tabazo petrochemical complex	N	Sept	13	15	Littelford Brothers - Lodge mixers for Subbit's new plant		Nov	19	107	Process machinery division acquired by Envirotech Corp.	R	Nov	19	44
El Tabazo petrochemical complex	N	Sept	13	15	Littell Industries - Lewis-Robins Div. - Freepore phosphate-handling system		Nov	12	34	Melamine Chemicals Inc. - new name for Melchem Inc.	R	Aug	23	22
El Tabazo petrochemical complex	N	Sept	13	15	Litwin - USS Chemicals' contract for Haverhill, O. complex	N	Aug	2	10	Melchem Inc. - changes name to Melamine Chemicals Inc.	R	Aug	23	22
El Tabazo petrochemical complex	N	Sept	13	15	Lockheed - FRP for plane interiors	N	Aug	9	37	Melamine plants and processes - U.S. makers adopt Dutch process to foil import threat (table)		July	12	49
El Tabazo petrochemical complex	N	Sept	13	15	Lockheed Training Center - How to hire minorities		Sept	20	40	Menasco Co. - rubberized automobile bumpers		Nov	5	21
El Tabazo petrochemical complex	N	Sept	13	15	Loeb Rhodes & Co. - Gazcozan see under name					Merck & Co., Chemical Div. - nonmetallic paint fungicide	C	Dec	3	43
El Tabazo petrochemical complex	N	Sept	13	15	Lonza Ltd. - acquired by Baird Chemical Industries	N	Oct	4	10	FDA order to recall certain products containing the antibiotic novobiocin	N	July	26	13
El Tabazo petrochemical complex	N	Sept	13	15	Louisiana Land & Exploration Co. - proposes a tourist resort on Molokai, Hawaii		Nov	26	126	Membranes to separate proteins and enzymes		Aug	30	35
El Tabazo petrochemical complex	N	Sept	13	15	Loumar Cosmetics - joint Japanese-German venture to produce cosmetics	R	Dec	24	39	Strike at three U.S. plants settled	N	July	26	13
El Tabazo petrochemical complex	N	Sept	13	15	Low Chemical Corp. - Colgate Read plant purchased by Chemical Pollution Control Corp.		Aug	23	37	Welton, Ted, Calgon's new president: Hoping to help Merck clean up		Aug	23	83
El Tabazo petrochemical complex	N	Sept	13	15	Lowell Gas - automated liquefied gas processing unit near Lowell, Mass.	R	Oct	18	34	Merck Sharp & Dohme - FDA moves to take eight combination diuretic drugs off the market	N	Sept	20	47
El Tabazo petrochemical complex	N	Sept	13	15	Lubrizol - diacetone acrylamide plant at Bayport, Tex. complex planned	R	Sept	13	18	Synthesis for a new and unusual antibiotic called phosphenomycin, effective against bacteria in animals was reported	N	Oct	11	55
El Tabazo petrochemical complex	N	Sept	13	15	Lummus Co. - contract for ethylene expansion at Soc. Chimique des Charbonnages plant	R	Dec	3	24	Metals Exploration - Australian nickel		Nov	5	32
El Tabazo petrochemical complex	N	Sept	13	15	Contract for Northern Natural Gas olefin and PE plants	N	Aug	23	13	Michigan Chemical - magnesium products prices	N	Aug	23	60
El Tabazo petrochemical complex	N	Sept	13	15	Ethylene oxide-ethylene glycol plant near Osaka	R	Nov	12	32	Microbiological Associates - acquired by Dynasynetics Corp.	R	Sept	13	18
El Tabazo petrochemical complex	N	Sept	13	15	Formaldehyde processing licensing		Nov	19	79	Microseal Corp. - acquired by Great Lakes Chemical	R	Sept	13	18
El Tabazo petrochemical complex	N	Sept	13	15	India: Koyali complex		Oct	11	36	Middlewest Motor Freight Bureau - ICC grants 6% blanket increase in freight rates	N	Sept	13	54
El Tabazo petrochemical complex	N	Sept	13	15	Licenses technology to Toyo Engineering	N	Aug	30	39	Midland-Ross Corp., IRC Fiber Div. - staple capacity expansion		July	19	24
El Tabazo petrochemical complex	N	Sept	13	15	Mitsui group to build ethylene plant using Lummus know-how in Russia	N	July	19	45	IRC Fiber Div. to be bought by Cyanamid	N	Oct	29	26
El Tabazo petrochemical complex	N	Sept	13	15	Lummus Nederland - low-density PE unit for USSR Europe	R	Oct	11	36	Rayon prices	N	Oct	4	37
El Tabazo petrochemical complex	N	Sept	13	15	Pekema Oy PE plant at Swaraback, Finland		Oct	29	57	Midland Silicones Ltd. - thin, strong, unsupported silicone rubber membrane will permit the building of more compact heart and lung machines	N	Oct	29	119
El Tabazo petrochemical complex	N	Sept	13	15	Lunevale Products - acquired by Great Lakes Chemical	R	Nov	5	21	Miles Laboratories - acquisition of Nuclear-Chicago's Berkeley Medical Instruments Div.	R	Dec	24	26
El Tabazo petrochemical complex	N	Sept	13	15	Lupton Manufacturing - acquired by Olin		Nov	5	21	Miller Brewing - Grace's sale of 53% interest in MB to Philip Morris completed. PepsiCo files suit.	N	Aug	2	9
El Tabazo petrochemical complex	N	Sept	13	15	Matheson R July 12-21					Millmaster Onyx - McGinty, Jerome, new president: From depression to prosperity in chemicals	N	Nov	12	56
El Tabazo petrochemical complex	N	Sept	13	15	M & T Chemicals, Inc. - acquires Forestal Industries' Cruikshanks Division	R	Nov	12	32	Mine Safety Appliances - infrared stack gas monitors (table)		Aug	2	31
El Tabazo petrochemical complex	N	Sept	13	15	Acquisition of Billiton's share of Holland's Billiton-M & T Chemical Industries	R	Dec	3	24	3M Co. - acquisition of Dart Industries' Riker Labs. ethical drug division planned	R	July	19	26
El Tabazo petrochemical complex	N	Sept	13	15	Hirschland, Herbert E., new president		Aug	16	113	Acquisition of Olin's chemical division	R	Nov	5	14
El Tabazo petrochemical complex	N	Sept	13	15	Metal-plating processes can halve nickel consumption		Dec	10	63	Merger in process of being wrapped up	N	Dec	3	10
El Tabazo petrochemical complex	N	Sept	13	15	5-para-chlorophenyl silatrane rodenticide		Dec	17	82	Dry-cleanable fluorocarbon for incorporation into leather finishes	C	Aug	23	67
El Tabazo petrochemical complex	N	Sept	13	15	Tin catalysts for making urethanes patent dispute	N	Nov	12	44	High-temperature plastic	C	Sept	20	103
El Tabazo petrochemical complex	N	Sept	13	15	Venture management: Chemical companies try new techniques to manage new ventures		Dec	17	47	Tartan Turf: Lineup set in synthetic turf turf		Aug	30	36
El Tabazo petrochemical complex	N	Sept	13	15	MCA - Firestone tentative agreement to acquire MCA	N	July	26	14	Mississippi Chemical Corp. - O'Brien, W.E. discusses companies' fertilizer marketing policies	R	Oct	11	45
El Tabazo petrochemical complex	N	Sept	13	15	Acquisition terms altered	N	Aug	30	10	Mitsubishi Atomic Power Industries - project to develop a gas centrifuge for enrichment of propane	N	Aug	23	73
El Tabazo petrochemical complex	N	Sept	13	15	Magma Copper - expansion program		Oct	4	15	Mitsubishi Chemical Industries - aluminum plant in Kagawa	N	Sept	27	27
El Tabazo petrochemical complex	N	Sept	13	15	Magneto-Chemie N.V. - Platinitized priority - letter		Sept	20	16	Asia Oil Holdings increased	R	Nov	19	120
El Tabazo petrochemical complex	N	Sept	13	15	Manganese Chemicals - hydroquinone production, sales and outlook	N	Aug	16	101	Polybutadiene rubber plant in Yokkaichi	R	Nov	19	120
El Tabazo petrochemical complex	N	Sept	13	15	Mantoln Gaultin Mfg. Co. disperses paints and other coating systems in batches		Nov	19	43					
El Tabazo petrochemical complex	N	Sept	13	15										
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High-density PE prices	N	Dec	24	58	to produce irradiated wood/plastic	N	Aug	9	33	Acrylic molding powder plant at Bristol	N	Aug	2	10
Houston Natural Gas weighs expansion					parquet flooring	N	Aug	9	33	Pa. expansion	N	Aug	2	27
of chemical ventures					Radiation Technology - nuclear radiation	N	Aug	23	74	Acrylic sheeting prices	N	Aug	2	27
Kenai, Alaska, natural gas liquefaction					applying for job in enzyme processing	N	Aug	23	74	Anim/8 fiber (called XE while in				
plant now fully operational	N	Aug	23	59	Rank Precision Industries, Inc.	C	Dec	3	43	development) is an acrylic copolymer		Oct	29	116
Monodis patent suit alleges infringement	N	July	5	43	Rath Co. - proposes using the hovercraft					Lenig Chemical see under name				
of polypropylene patent	N	July	5	43	principle to contain oil in bubble barrier					Plasticizers prices	N	July	19	38
Pacific Petroleum Ltd. see under name					Red Circle Transport Co. - barges for					Surfactant prices	N	Sept	13	54
Petrochemical venture with Showa Denko					Freeport					West, A.S. discusses R&D expenditures				
in Venezuela possible	N	Nov	19	114	Reed - Hoechst negotiates for joint					at AICHE meeting		Nov	26	129
Popp, George predicts U.S. synthetic					ventures	N	Nov	26	36	Rohr Corp. - Operation Breakthrough				
rubber outlook is rosy					Reichhold Chemicals Inc. - deep-well					bidding		Dec	24	22
Photochem Industries - incorporated in					disposal of phenol, formaldehyde and					Rollins International - Rollins-Purle see				
Delaware					synthetic resins waste at Tuscaloosa,					under name				
Picker Corp. - American Hoechst and PC					Ala. plant	N	Nov	19	90	Rollins-Purle - building plants capable of				
form Picker-Hoechst	N	Aug	2	10	Formaldehyde and synthetic resins plant					treating factory wastes biologically,				
Picker-Hoechst - formed by American					at Albany, Ore., planned	R	Dec	10	22	chemically or by incineration		Nov	5	42
Hoechst and Picker Corp.	N	Aug	2	10	Formaldehyde processing licensing					Rorer-Anchem - acquires Dyonics, Inc.	R	Oct	29	35
Pierce & Stevens Chemical Corp. - Chemi-					competition					Rothamsted Experimental Station - device				
cal specialties and adhesives plant near					Jacksonville, Fla., plant to get waste-					for extracting protein from common				
Chicago planned	R	Nov	19	44	treatment unit	R	Nov	19	44	jungle weeds		Sept	20	115
Pierini Tanning & Dyeing - U-Tan Co.					Maleic anhydride prices	N	July	5	31	Rotterdam Polyolefinen - polypropylene				
division marketing kits to tan fur skins					Pentaerythritol capacities	N	July	12	29	capacity increase at Pernis,				
Pigment Manufacturers of Australia -					50 million lbs/year by sulfonation					Netherlands	R	Dec	24	39
ICI/NZ-BASF joint venture to produce					process in '70 (table)					Rowell Labs. - lithium carbonate will be				
pigments	R	Dec	17	40	Plastic platemaking system					approved for marketing by FDA	N	Aug	23	27
Pine State By-Products - fined for					(Poly-Autoplate) for high-quality					Rowles, Winston & Co. - Texans tell				
"permitting odors from its rendering					letterpress color printing	N	Dec	3	9	how to bankroll young chemical				
operation to offend residents" of South					Plasticizer Div. - ousted from old brick					ventures		Nov	5	20
Mo., Md.					building at Cambridge - builds a					Royal Dutch Salt (KZO) - AKU-KZO				
Super Aircraft - FRP for planes					bigger, better plant at Carteret		Sept	27	48	merger: Europe's mergers make problems		Aug	30	31
Pittsburg Corning - cellulized glass beads					Resin facilities	C	Aug	2	35	AKU merger N July 19-45, N July 26-27,				
tossed onto oil spills, could be the answer					Sterling Forest, N.Y. expansion	N	Aug	2	10	Aug 30-31, R Sept 20-43				
to some spill control problems	N	Dec	17	70	Water-fillable resins	C	July	19	32	Celanese will sell its 50% in Kanam N.V.				
Podbielniak, Inc. - centrifugal counter-					Reichhold Chemie - agreement to supply					to KZO		Oct	4	15
current liquid-liquid extractor - letter-					Russia with industrial paint know-how					European profits rise (table)		Oct	11	26
Pointel-Girard - fined for breach of EEC					also provides for the sale of leather,					International Salt merger: Antitrust is				
antitrust regulations	N	Aug	2	28	wood and automobile finishes to the					tough on Americans too - Viewpoint		Nov	5	5
Polimeros Nacionales - BASF increases					Soviets					Offers to buy up to 1 million shares of				
investment	R	Dec	24	39	Republic Corp. - acquisition of Glas-Craft					International Salt	R	Sept	20	43
Polychem Ltd. - styrene plant at Koyali					of California	R	July	12	21	Justice Dept. seeks postponement of				
complex, India	R	Oct	11	36	Republic Steel Corp. - Chicago files					proposed acquisition, and is rebuffed		Oct	11	28
Polymer Applications - alkylphenol-acety-					antitrust suit against South Works	N	Oct	11	55	Sales and profits	N	July	26	27
lene resin plant in Tonawanda, N.Y.	R	Sept	27	18	Research-Cottrell - Dingler heavy					U.S. investment plans	N	Nov	5	25
Polymer Corp. - instrument maintenance by					industrial valves					VCM capacity expansion considered	N	July	12	33
computer working since '58					Research Organic/Inorganic Chemical					Royal Dutch/Shell - Armour sell its				
Polybutadiene plant at Koyali complex,					Corp. - Lepidine, derivatives	C	Dec	24	54	interest in Shellstar to R.D.S.				
India					Revere Copper - aluminum ingot prices	N	Aug	16	87	Brunei Shell see under name				
Polymer Industrie Chimiche - Neofill see					Rewo Chemicals - additives for rug					Chemical expansion in Moerdijk,				
under name					shampoo					Belgium	N	Dec	10	28
Polymers, Inc. - extruded needles for					Rewo Southern - producing surface-active					IQA see Industrias Quimicas Asociadas				
synthetic trees					agents at Miami, Fla.					Petrochemical capacities in Netherlands				
Polyquímica Textil - AKU and Glanzstoff					United expected to be completed next					to be expanded	R	Oct	18	34
each acquired a 25.5% interest in PT	N	Sept	13	24	month	R	July	19	26	Refinery at Geleen, Netherlands, planned				
Poly-Tech Corp. - acquired by U.S.					Reall Polymers - selective polystyrene					with DSM	N	Sept	27	24
industries	R	Aug	30	16	prices	N	Dec	3	36	Sales - 10th in chemicals		Nov	19	39
Pont-A-Mousson - St. Gobain merger	N	Aug	2	20	Rexene Polymers Co. - ABS resins	C	Nov	19	104	Tarragona refinery-ethylene project bids		Nov	12	29
Potash Co. of America - potash prices	N	Oct	11	42	Reynolds Metals - aluminum ingot prices	N	Aug	16	87	Royceform, Inc. - personal hygiene spray				
Sulfate of potash prices	N	Sept	20	100	Rheinsche Oelwerke - ethylbenzene					market		Dec	17	81
Powell, Wm. Co. - globe valves	C				and styrene unit onstream at					Ruben Chemicals - diisocyanate product		Dec	10	54
Power Gas - contract for amines plant in					Wessling	R	Oct	11	36	TDI-80/20 prices	N	Sept	20	38
Rumania					Ethylene venture of BASF and Royal					Phosgene traffic halted by U.S.DOT		Sept	20	38
Equipment consortium					Dutch Shell, launching expansion					Toluene diisocyanate price	N	July	19	37
Gas from Britain's biggest offshore field					program	R	Oct	29	57	SARP - chemical and petrochemical				
will be tied into the national grid	N	Aug	2	40	Polypropylene plant at Wessling, West					complex for Sicily planned	N	Nov	12	28
Power-Gas Corp. of America - ICI formal-					Germany	R	July	5	34	SCM Corp. - Ceramics Group - ultralow-				
dehyde process used in G-P's Crossett					Rhodia, Inc. - acquires 50-acre tract at					expansion glass for commercial glazes	N	Oct	4	47
Div. plant					Brazosport, Tex., from Dow					Saarbergwerke AG - plastic film joint				
Power Reactor & Nuclear Fuel Development					Chemscreen technique for shielding					venture in Neunkirchen	R	Aug	16	57
- gas centrifuge	N	July	19	51	nearby residential areas from plant's					Saber Laboratories - intermediates	C	Dec	3	43
Prati & Lambert - chemical specialties					odors					St. Gobain Co. - Common Market experts				
and adhesives plant near Chicago					Contender for the U.S. silicone market					see money pinch pushing European				
planned	R	Nov	19	44	Rhodia Industrias Quimicas e Texteis					chemical companies into mergers	N	July	26	27
Premier Petrochemical - Mellam plants					coumarin prices	N	Sept	20	109	Pont-A-Mousson merger	N	Aug	2	20
and processes - U.S. makers adopt					Rhone-Poulenc - acquisition of 25%					St. Joseph Lead - Hanna Mining merger				
Dutch process to foil import threat					interest in Soc. Roquette Freres					plans terminated	R	Aug	16	42
(table)					Acquisitions strengthen Rhone-Poulenc's					Site preparation on project in the Brushy				
Pressure Chemical Co. -					European position					Creek area, Mo.	R	July	5	19
organophosphines	C	Aug	16	110	Common Market experts see money pinch					Zinc prices	N	Sept	13	53
Phosphine ligands	N	Nov	26	143	pushing European chemical companies					St. Regis Paper - contract to investigate				
C Process Plants Inc. - Southwest Cryogenics					into mergers					activated carbon for reclaiming water				
see under name					Expansion in the U.S., fine chemicals					from pulp mill effluent	N	July	5	44
Production Steel - acquired by Whittaker	R	July	12	21	plant near Freeport, Tex.					Salador - Grace buys majority interest	N	Aug	2	10
Produits Chimiques de Tessenderloo -					Paraxylene plant at Gonfreville, France					Salzdetfurth - BASF seeks control	N	Nov	19	113
VCM plant, probably in Belgium's					Pechiney-St. Gobain-R-P merger: Europe's					San Diego Gas & Electric - IGT fleet				
Limburg province planned	N	July	12	33	mergers make problems					testing of vehicles fueled by natural				
Provesta Corp. - petroleum-based SCP					Phenol-from-cumene process					gas		Dec	17	23
products					U.S. investment plans					San Miguel Fertilizer Co. - sold to Grace		Nov	26	27
Pullman Inc., Swindell-Dressler Div. -					Richardson Ink Co. - forms new subsidiary,					Sandia Laboratories - sterilization by a				
Iranian plant for direct reduction of iron					Richardson Ink Co. - forms					combination of heat and nuclear				
ore possible	N	Sept	6	48	Richardson's Organic Chemical Div.					radiation	N	Oct	11	56
Swindell-Dressler Div. plans steel					lauryl sulfate and emulsion polymers					Sandoz Inc. - ECM antitrust team fines				
plant in Arizona using the HYL direct					capacity doubled	N	Dec	10	54	nine European firms for alleged price				
gaseous reduction process	N	Sept	13	18	Rigo Chemical - acquired by Central					fixing of aniline dyes N Aug 2-20,				
bleaching of Kraft pulp with high-pressure					Soya					N Aug 16-48, N Oct 18-65	R	Nov	5	21
oxygen and steam may replace three con-					Riken Kogyo - "chemical jackhammer"					Sandoz Pharmaceuticals - Hanover, N.J.,				
ventional steps using chlorine and hypo-					will demolish concrete quietly and					research center addition	R	Aug	30	16
chlorites (flowed)					quickly	N	Sept	13	67	Sankin-Sha - Perlite joint venture in				
Purle Bros. Holding Ltd. - Rollins-Purle					Riverton Laboratories - court upholds					Kon	N	Nov	19	120
see under name					Carter-Wallace's patent on meprobamate,					Sanyo Petrochemical - ethylene plant in				
Purvin & Gertz - LNG study for Gazocean					tranquilizing agent marketed as					Mizushima planned	R	Nov	19	120
					Miltown					Sargent Calcium - acquired by American				
					Robeco Chemicals, Inc. high-purity fatty					Cyanamid	N	July	26	13
					acids	C	Oct	29	129	Schaefer, F. & N. Brewing - brewing				
					plant					complex at Fogelsville, near Allen-				
					Acquisition of Consolidate Biomedical					town, Pa., planned	N	Dec	17	17
					Labs. R Nov 5-21	R	Dec	17	26	Schenebly Chemicals - adhesives plant				
					Acrylate monomers plant at Sea Sands,					joint venture in Japan	R	Nov	19	120
					Teeside, England planned					Scientific Design - maleic anhydride				
										plant for Rumania				
										Netherlands propylene oxide plant will				
										use technology from Atlantic Richfield R				
										Perchlor processes		Aug	16	56
												Aug	9	31

(N Newsletter, R Roundup, C Countdown)

Production units for Northern Petrochemical ethylene oxide plant.	Nov 26	120	Signal Chemical Co. - Daly, LeGrand: Charing a new course in plastics.	Oct 18	109	Southeast Chemical & Plastics - Southeast		
Scott Bader & Co., Ltd. - high-gloss paint emulsion.	Sept 20	104	Hydroquinone project at Bayport, Tex. N July 26-51.	Aug 16	101	Latex acquired by Dart Industries.	R	Oct 18 34
Scott Laboratories - \$10 new additive that shapes up as the best single answer to the problem of pollution from autos.	Dec 24	72	Resorcinol by proprietary process as a springboard into hydroquinone production; plant at Bayport, Tex.	Oct 11	55	Southeast Aniline - acquired by Tenneco.	R	Oct 18 34
Scott Paper - Graft polymerization technique needs a new developer.	July 26	52	Signal Oil & Gas Co. - Signal Chemical see under name.			Southern Natural Gas - Sea Robin Pipeline see under name.	R	July 19 26
Sea & Ski - Block Out, based on ethanol-aminobenzoic combination protects skin against sun.	July 5	43	Sinclair Koppers - styrene monomer prices.	N	Sept 6 33	Southern Press & Fiber Media Co. - acquired by Slick Corp.	R	Sept 20 43
Sea Robin Pipeline - financing set for project that will bring in natural gas from beneath the outer continental shelf of the Gulf of Mexico off the Louisiana coast.	Aug 23	14	Slick Corp. - acquisition of Southern Press & Fiber Media Co.	R	Sept 20 43	Southern Solvents & Chemicals - acquired by Central Solvents & Chemicals.	R	Aug 23 22
Searle, G.D. Co. - Enovid: Los Angeles County jury dismisses damage suit.	Oct 11	21	Sloan-Kettering Institute - first solid evidence that poly I:C induces interferon production in humans presented by M. Hilleman of Merck Institute.	N	Dec 24 72	Southern Towing Co. - Du Pont files cargo damage suit.	N	Sept 20 34
Selby - acquires 70% interest in Ecological Science.	Dec 3	24	Sly, W.W. Mfg. Co. dust filter.	C	Nov 26 143	Southwest Cryogenics - CO ₂ plans: installation at Marmet, W.Va. to use CO ₂ off-gas from Du Pont's ammonia plant; 600-ton plant at Luling, La.	N	Oct 29 25
Selitsu Chemical - PEO being marketed in Japan.	Oct 18	72	Smith & Loveless - McKinney waste treatment process uses algae.	Sept 13	63	Southwest Forest Industries - particleboard plant in Flagstaff, Ariz., planned.	R	July 12 21
Selitsu Kagaku - Japan boosts fertilizer exports to meet Red China's needs.	Nov 19	117	Smith Kline & French Labs. - lithium carbonate will be approved for marketing by FDA.	Aug 23	27	Sovereign Industries, Inc. - steel plant in Arizona using the Hyl direct gaseous reduction process planned.	R	Sept 13 18
Lummus formaldehyde process will be used in Himeji plant.	Nov 19	79	Medical-services: the instruments division set up as part of company's five-year plan to lessen its dependence on pharmaceuticals.	N	Dec 24 18	Sperry & Hutchinson - Paragon Design to make and sell urethane components.	R	Dec 24 26
Sekisui Chemical - High Voltage Engineering and SC to form a U.S. company to engage in production and sale of irradiation cross-linked PE foam.	Sept 13	18	Snam Progetti - urea plant for IVP.	N	Sept 6 24	Sperry Rand - Vickers Div. - high-torque motors.	C	Nov 19 100
Selas Corp. of America - Dow obtains rights to ceramic foam technology.	Dec 10	68	Snell, Foster D., Inc. How to court the consumer - report Herbert Terry (table).	Aug 16	59	Squibb Beach-Nut Inc. - New Brunswick, N.J. plant introduces improved drug processing methods.	N	Nov 19 107
Heat exchanger for ethylene burners capable of vaporizing a piece of quart-inch steel plate from a distance of 12 in.	Sept 27	49	Snia Viscoas - caprolactam plant at Manfredonia, Italy.	N	Oct 4 20	E.R. Squibb & Sons see under name; Tetracycline case: third chapter in tale; Justice seeks \$25 million in damages.	July 26	20
Semboku - ethylene oxide-ethylene glycol plant near Osaka.	Nov 12	32	Chemtex Fibers to design expansion of polyester fiber facilities.	R	Dec 24 39	Tetracycline restraint of trade suit.	R	Dec 24 26
Servo Mihalj - Yugoslavia pharmaceutical intermediates joint venture.	Nov 19	113	Fiber complex near Salerno.	R	Sept 6 24	Squibb E.R. & Sons - Argentine office bombed.	N	Dec 3 20
Shahpur Chemical - fertilizer complex at Bandar Shahpur, Iran.	Sept 20	139	Social Research Corp. - How to hire minorities.	Sept 20	40	FDA moves to take eight combination diuretic drugs off the market.	N	Sept 20 47
Shell Canada gas processing plant to be built in Alberta N July 19-17.	Sept 27	24	Soc. Antillaise de Produits Chimiques - fertilizer complex on Martinique and Guadeloupe.	R	Dec 10 22	Tetracycline case: third chapter in tale; Justice seeks \$25 million in damages.	July 26	20
Shell Chemical - California will crack down on Azodin.	July 5	10	Soc. Carbochimique - Althouse-Terre see under name.			Tetracycline restraint of trade suit.	R	Dec 24 26
Ethylene expansions: new Houston plant, additional furnace at Norco, La. plant.	Dec 3	12	Soc. Chimica Ravenna - PVC unit planned.	R	July 5 34	Staley, A.E. Mfg. Co. - acquisition of Charlotte Chemical Labs.	R	Aug 16 42
Expansion plans at Carrington, Cheshire plant, at Stanlow, Cheshire and Antwerp area, Belgium.	Dec 3	20	Soc. Chimique de la Grande Pologne - contractor for units for Rumanian fertilizer complex.	Aug 2	22	Chemical Div. - high-gloss paint emulsion.	C	Sept 20 104
50/50 joint venture petrochemical complex in Thailand.	Aug 9	24	Soc. Chimique des Charbonnages - ethylene capacity at Lorraine, France expanded.	R	Dec 3 24	Prepress color-printing proofing process N July 12-44.	N	Aug 9 33
Linear primary alcohols capacity at Geismar, La. expansion.	Aug 9	12	Soc. de Prayon - superphosphoric acid plant near Liege, using the Oxy-Nordac process, planned.	N	Sept 6 24	Sno-Bal, automatic cleaners for toilet bowl.	Oct 29	88
Rotterdamse Polyolefines see under name. Sales: chemicals hit \$1.1 billion with 10-11% growth prospect.	Nov 19	39	Soc. Foster Wheeler Francaise - contract to build plant at Cap Lavera to produce protein concentrate biomass from hydrocarbons.	R	Dec 3 24	Stalwart Rubber - acquired by Blasius Industries.	N	Oct 11 21
Singapore hydrocarbon solvents plant.	Sept 27	24	Soc. Francaise des Matieres Colorantes - ECM antitrust team files nine European firms for alleged price fixing of aniline dyes N Aug 2-20, N Aug 16-48, N Oct 18-65.	R	Nov 5 21	Standard Chlorine Co. - buys Sun Oil's interest in Standard Naphthalene Products.	N	Sept 13 9
Texas buildup slowed by strikes.	July 5	16	Soc. Francaise des Petroles BP - contracts for plant at Cap Lavera to produce protein concentrate biomass from hydrocarbons.	R	Dec 3 24	Standard Oil Co. of California - Bahamas Oil Refining Co. see under name.	N	Sept 20 34
USDA admits it failed to enforce decision to require a new safety warning on labels of Shell's No-Pest strips.	July 5	23	Soc. Francaise D'Organosynthese - U.S. investment plans.	Nov 5	25	Bids for Alaska's North Slope oil.	N	Sept 20 34
VCM plant at Houston, Tex., will use Stauffer's technology.	Oct 18	26	Soc. Industrielle de Polyolefines - high-density PE plant at Gonfreville, France.	R	Oct 29 56	Hydrocarbylamine new additive that shapes up as the best single answer to the problem of pollution from autos called F-310.	N	Dec 24 72
Shell Chemicals U.K. - linear primary alcohols capacity expansion at Stanlow, Cheshire.	Aug 9	12	Soc. Italiana della Union Chimique Belge - San Martino-Rho plant to produce specialty chemicals, adhesives and stabilizers.	R	Nov 12 32	Standard Oil (Indiana) - inviting tenders of common in exchange for shares of Standard N. Jersey.	N	Nov 26 22
Shell Nederland Chemie - PVC capacity at Pernis expansion.	July 12	33	Soc. Italiana Resine - SAR P see under name.	Aug 9	25	Inviting tenders of common in exchange for shares of Standard N. Jersey.	N	Nov 26 22
Shell Oil - Brown & Root's "Mr. Clyde" used during construction of gasoline processing plant at Ycoksey, La.	Oct 11	73	Soc. Lorraine de Polyolefines - low-density PE plant at Carling, planned.	R	Aug 9 25	Standard Oil Co. of New Jersey - direct iron ore reduction process: what's in store?	N	Sept 13 67
Naphtha for Singapore plant.	Sept 27	24	Soc. Miniere et Metallurgique de Penarroya S.A. - joint study with Amax for exploitation of the Yorke-Hardy molybdenum deposits in British Columbia.	R	Aug 30 16	Jameson: "Our main business is in oil, natural gas and chemicals."	Nov 19	42
Natural gas liquefaction plant on Borneo.	Oct 4	47	Project with Amax to develop nickel deposits in New Caledonia.	R	Aug 30 16	New chiefs Jameson and Brisco plan to keep growing in chemicals.	Sept 6	53
Shell Sekiyu - refinery and petrochemical complex in Kyushu.	Dec 17	40	Project with Amax to develop nickel deposits in New Caledonia.	R	Aug 30 16	Standard Oil (Ohio) - BP proposal to merge its American operations into SOHIO will be voted.	N	Sept 6 10
Shellstar Ltd. - Armour sells its interest to Royal Dutch/Shell.	Nov 26	27	Soc. Miniere Union Carbide-Sonikubi - UC columbium mining project in Congo.	July 12	37	Justice would block merger.	N	Oct 11 22
Sheritt Gordon - cobalt prices.	Nov 12	38	Soc. Nationale des Petroles D'Aquitaine - Aquitaine-Organico see under name.	Nov 12	29	Antitrust is tough on Americans too - Viewpoint.	Nov 5	5
Sherwin-Williams - beta-naphthol prices.	Nov 5	30	Plans to invest \$116 million in new petrochemical and plastics plants in France and in the U.S.	Nov 12	29	Merger okayed by Justice Dept.	N	Nov 26 21
Competition in bidding for control of paint producer Berger, Jensen & Nicolson.	Dec 24	18	Soc. Nogentaise de Produits Chimiques - fined for breach of EEC antitrust regulations.	N	Aug 2 28	Stockholders meeting was adjourned until Dec. 9.	N	Dec 3 10
Lead-free zinc oxide price.	Oct 4	37	Soc. Roquette Freres - Rhone-Poulenc acquires 25% interest.	N	Dec 24 32	Merger okayed.	N	Dec 17 17
Phthalic anhydride prices.	Aug 2	27	Solvay & Cie. - moving ahead with diversification into fibers.	N	Dec 10 28	Stock offering.	R	Dec 24 26
Sherwin Williams Chemicals, new division, formed by consolidation of pigment, colors and chemicals departments, auxiliaries chemicals department and Maumee Chemical.	Sept 27	18	Process for treating waste waters from soda ash plants.	Nov 12	42	Standards Brands, Inc. - Standards Brands Chemical Industries Div. buys ICI's Butakon Div.	N	Aug 9 24
Sherwin Williams Chemicals div. building tolyltrazole plant in Cincinnati, O.	Sept 27	18	Sales and earnings, six months '69.	N	Oct 29 49	Starnetics Co. - solid mask.	C	Nov 19 104
Synthetic para-cresol prices.	Oct 13	53	VCM and PVC capacity in Europe boost N VCM unit at Martorell, Spain, planned.	N	Aug 9 24	Stauffer Chemical Co. - bulk vinyl resins prices.	N	Nov 5 29
Zinc oxide prices.	Sept 13	54	Sonatrach - Algerian LNG due.	July 5	29	Chlorine prices.	N	Sept 20 109
Zinc sulfate prices.	Aug 16	87	El Paso contract for importation of Algerian LNG into U.S. over a 25-year period.	N	Oct 18 26	Cowles Chemical Div. - durable-press fabric detergent.	C	Nov 19 104
Shin-etsu Chemical Industry - Kashima complex: Japan builds a \$500-million petrochemical project - its biggest.	July 5	34	South African Coal, Oil & Gas Co. - ethylene plant at Sasolburg onstream.	R	July 5 34	DDT suit.	N	Oct 29 31
Shinko-Paulder - electrolysis as a way of getting fresh water from salty well water project.	Nov 5	36	Southbridge Plastics Co. - vinyl sheeting plant at Clifton, N.J. shutdown ordered for failure to carry out a 68 court order to eliminate "offensive odors" from the plant's plastic-processing ovens.	Aug 23	37	Headquarters to be moved to Westport, Conn., in late '71.	R	Nov 19 44
Showa Denko - petrochemical venture with Phillips Petroleum in Venezuela possible.	Nov 19	114				Phosphate chemicals prices.	N	Dec 10 54
Plastics center planned.	Sept 27	27				Shell's plant at Houston, Tex., will use Stauffer's VCM technology.	N	Oct 18 26
Showa Neoprene - chloroprene plants.	Aug 23	35				Sodium silicates prices.	N	Sept 6 33
Shree Synthetics - nylon plant in Madhya Pradesh.	Sept 6	24				Teflon application on its acid absorption towers has been used for the last five years.	N	Sept 6 48
Sierracin Corp. - polymer for clear coating for aircraft fuel tanks.	Aug 9	40				Stauffer Hoechst Polymers - PVC sheeting for synthetic trees.	Dec 24	68
Protective coating.	Aug 2	35				Stearns-Roger - contract from Gulf to expand low-density PE plant at Orange, Tex.	R	Nov 12 22
						Stapan Chemical - sales and earnings, third-quarter report.	N	Oct 18 25

(N Newsletter. R Roundup. C Countdown)

Sterling Drug, Inc., Hilton-Davis Chemical Div., optical brighteners for detergents - letter	Dec	10	5	Teijin Chemical Japan's biggest polyester producer, seeks oil in Libya	R	Aug	23	35	Seeking government approval of a patent agreement with Dow for production of polypropylene continuous-sheet foam	N	Sept	6	24	
Slevens, J.P. & Co., Chemical Div., textile chemicals unit at Piedmont, S.C., planned	R	July	5	19	Joint venture with Hercules to make DMT in Japan	R	Aug	23	35	Thailand investment expansion	N	Sept	27	27
Glass-fiber in aircrafts	R	Aug	9	37	Polyester tubes plant planned	R	Aug	9	25	Thiokol will team with two Japanese firms to build Japan's first polysulfide monomer plant	N	Dec	10	28
Israeli fiber researcher, M. Lewin, aids during 8-month working visit to textile lab	Nov	12	49	Teijin Inc., marketing substitute silks of modified polyesters	Sept	6	38	Toyoda Soda - chloroprene plant will use a butadiene process under license from BP	R	Aug	23	35		
Nylon scrim for Hawaiian man-made lake liner	Nov	26	126	Teijin Limited - three new high-temperature products - a fiber, a film and a varnish	N	Oct	29	120	Toyobo Co. - Chino, new silk synthetic	R	Sept	6	38	
Store & Webster Engineering - electrolytic process for sulfuric acid recovery - financing sought	N	Dec	3	46	Teijin Petrochemical - petrochemical buildup	R	Aug	23	35	Trans Alaska Pipeline System - Will be under the strictest controls ever placed on pipeline builders	N	Nov	12	20
Stora Kopparbergs Bergslags - U.S. company cancels contract because of Swedish government aid to North Vietnam	N	Oct	18	66	Tenneco Chemicals Inc. - acquires more than 10% of the stock of Albright & Wilson	N	Nov	5	24	Pipeline cleared	N	Dec	24	31
Style-Crafters, Inc., nylon foam products	N	Oct	18	66	Acquisition of Southeastern Aniline	R	July	19	26	Trans Union Corp. - computer systems to trace car movements	July	19	42	
Suburban Propane Gas - acquires oil and gas producing properties in Arkansas and Louisiana	R	July	12	21	Burlington, N.J. residents demonstrate against Penn Cent. plant which hauls VC and VA from Tenneco plant	Sept	27	14	McKinney waste treatment process uses algae	Sept	13	63		
Sulkerme U.A. - Amsterdam court orders company to stop advertising "unfounded, destructive criticism" of cyclamates	N	Aug	30	39	Fumaric acid prices	N	Sept	20	109	Trans ammonia - fertilizer exports going up	Oct	4	34	
Sulphide Corp. - Eastern Nitrogen see under name					Heyden Div., benzyl alcohol plant at Fords, N.J. R July 12-26	N	Aug	9	11	Transene Co. - heat-sink grease	C	Sept	20	104
Sulphur Export Corp., position as world price leader undermined	N	Sept	27	43	Nuodex Div., displays antifoaming agent for gloss and semi-gloss latex paints	N	Nov	19	43	Trans-Sonics Inc. - liquid level indicator	C	Sept	20	101
Sumitomo Chemical - expansion program	N	Nov	19	118	Pentarythritol capacities	N	July	12	29	Turnomat Co. - acquired by Blasius Industries	Dec	17	25	
Hasegawa urging U.S. industry and government leaders not to insist that Japanese textile makers voluntarily cut exports to the U.S.	N	Oct	4	19	Pentarythritol prices N Sept 6-33	N	Sept	13	54	Turtle Wax Inc. - Color-Bak Rug Shampoo and Spot Cleaner introduced	July	12	26	
PEO being marketed in Japan	N	Oct	18	72	Parometrics: many starters, few finishers	N	Oct	18	71	Tyco Laboratories - contract from ARPA to make "anomalous" (or other) poly water	N	July	12	43
Plant to make synthetic meta and para cresols	N	Dec	10	68	Jentra 3, shoe material	N	Oct	18	71	UCB-FTAL - phthalic anhydride and phthalates joint venture	Aug	16	57	
Test plant to produce high-density PE	R	Dec	17	40	Shoe-upper material exhibited at L&A exposition	N	Nov	19	76	U.R.E.I. Co. - fume detector	C	Nov	19	101
Sun Chemical Corp. - Chemetron takeover bid, rebuffed but still wooing	Sept	13	16	Tennessee Corp., maleic anhydride prices	N	Sept	27	10	Ube Ammonia Industry - ammonia plant using ICI-Kellogg process planned	R	Aug	23	35	
Fertilizer-grade ammonia wholesale prices	N	Oct	11	42	Petro-Tex Corp. see under name				Ube Industries - butadiene joint venture with Maruzen in Japan	R	Aug	23	35	
Sun Oil - Dunlop, R., Petrochemical and plant food revenues will be somewhat higher in '69	Nov	12	22	Record interest on first-mortgage pipeline bonds	N	Sept	27	10	Chiba Butadiene see under name					
FTC charges producers of petroleum coke with restraint of trade	Dec	17	25	Tennessee Eastman - Kodak polyester plants at Kingsport, Tenn., and Columbia, S.C. capacity additions	R	Aug	30	16	Uddcomb Sweden AB - Swedish venture to make reactor vessels and other heavy steel components for CPI	N	July	19	51	
Fertilizer complex on Martinique and Guadeloupe	R	Dec	10	22	Tennessee Corp. - copper chemical prices	N	Aug	16	87	Uddenhols AB - Swedish venture to make reactor vessels and other heavy steel components for CPI	N	July	19	51
Standard Naphthalene Products interest sold to Standard Chlorine Co.	N	Sept	13	9	Testor Corp. - oil of mustard (allyl isothiocyanate) additive stops youngsters from sniffing glue	N	July	26	51	Ugine - ethylenediamine from ethanalamine and ammonia process	N	Aug	16	102
Top management will change: R. Dunlop moves up to chairman; H.R. Sharbaugh, new president	N	Dec	24	17	Texaco - FTC charges producers of petroleum coke with restraint of trade	Dec	17	25	Ultra Adhesives - defoaming agents	C	Sept	20	104	
Sunlight, AB - low-phosphate-content detergent, dubbed New Radion	Oct	29	106	Hydrocracker at Port Arthur, Tex., contract to Parsons	R	Oct	29	35	Unicat Development Corp. - slurry mixer	C	Nov	19	100	
Suntide Refining Co. - FTC charges producers of petroleum coke with restraint of trade	Dec	17	25	Odessa, Tex., to be found of learning or found of oil?	N	Nov	5	21	Unifon Kemi - low-density PE capacity expansion in Sweden R Aug 9-25	R	Dec	17	40	
Superfosfabolaget - Lijeholms see under name					Texas Gulf Sulphur - earnings	N	Nov	12	13	Union Carbide - acrylate plant now complete at Taft, La.	N	Nov	12	37
Superior Construction - acquired by Olin Mathieson	R	July	12	21	Phosphate Div. - new techniques to cut costs of bulk-handling	Nov	12	34	Air-cooler sales begin upswing as fresh-water reserves shrink	July	5	22		
Susquehanna Corp., Atlantic Research Div., Arcagen system for controlled oxygen atmosphere for food preservation	July	26	28	Sulphur production cutback	Sept	27	44	27	Aminoethylethanolamine prices	N	Aug	16	88	
Violated federal securities law following its successful tender offer for 38% of Pan American Sulphur's common stock rules SEC examiner	N	Aug	30	9	What next for the big sulfur producers?	N	July	26	17	BASF's Wintershall normal-paraffin plant will use Iso-Siv process	N	Aug	2	20
Swedish Cotton Mills - polyester fiber capacity in India increased	N	Sept	6	24	Texas Instruments - Sherman, Tex., plant will make single-crystal semiconductor material	R	Aug	16	42	Cabot will acquire Stellite operations	N	Dec	24	17
Swearingen - FRP for planes	N	Aug	9	40	Texas-U.S. Corp. - polybutadiene rubber license for Mitsubishi	R	Nov	19	120	California will crack down on Temik	N	July	5	10
Swedish Sugar Co. - protein product research	Aug	2	44	Thai Oil Refinery - 50/50 joint venture petrochemical complex in Thailand	N	Aug	9	24	Chemicals & Plastics Group - cyclic olefins	C	Aug	2	35	
Swift Agricultural Chemicals - revamping operating and marketing methods for fertilizers (chart)	Aug	16	91	Thermo Electric Corp. - solid-state control	C	July	19	32	Chemicals & Plastics Group - cyclic olefins	C	Aug	2	35	
Swift & Co. - Austral-Pacific see under name					Thermo-Lab Inc. - gas analyzer	C	Sept	20	101	Chrome operations in Rhodesia not going so well	July	12	37	
Mobil selling most of its retail fertilizer business to Swift	N	Nov	12	14	Thiokol Chemical - Japan's first polysulfide monomer plant will be built in team with two Japanese firms	N	Dec	10	28	Chrome imports from Rhodesia	N	Nov	19	48
Swindell-Dresser Corp. see Pullman Inc., Swindell-Dresser Div.					Thor Dahl Shipping Co. - Norwegian whaler to be converted into a mobile FPC plant	Dec	17	61	N Oct 29-106	N	Nov	19	48	
Sybeta - contractor for fertilizer complex at Sibotzia, Rumania	Aug	2	22	World's largest permanent floating fish-protein plant will be built by a Scandinavian consortium	N	Oct	4	48	Columbium mining project in Congo	R	July	12	37	
Equipment consortium	Sept	13	15	Thor Power Tool Co. - sludge pump	C	Nov	19	101	Dry-bulb plant at Maryville, Mo., to be built	R	Oct	29	35	
Gabonese ammonia fertilizer plant	July	5	34	Thyssen Rohwerke - equipment consortium	Oct	29	50	50	Ethylene glycol-based antifreeze prices	N	Dec	10	54	
Syntex Corp. - Alza Corp.'s shares will be distributed	N	Dec	17	18	Pipes for Russia	Oct	29	50	Ferroalloys Div. - New president Fred Kroft, Jr. The club champ takes over a new division	Nov	26	154		
Tampa Electric Co. - electrolytic process for sulfuric acid recovery pilot-plant tested	N	Dec	3	46	Titanengesellschaft - titanium dioxide plant at Nordenham, Germany	Sept	13	29	Furniture polish concentrate	C	Nov	19	104	
Tangent Foams - ICI acquires 51%	R	Nov	12	32	Titanium Metals - titanium tubing prices	N	Oct	18	57	Glutaraldehyde in leather tanning	N	Aug	23	67
Tantalum Mining Corp. of Canada Ltd. - Canada's first tantalum mill is processing 500 tons/day of ore	Sept	20	112	Tokyo Gas - liquefied Brunei gas to be purchased	N	Oct	4	47	Hard-hitting antifreeze advertising campaigns are boosting sales; anti-leak formulas at center of a controversy	Dec	24	62		
Russia imports cesium oxide	N	Oct	29	119	Tokyo Gas - liquefied Brunei gas to be purchased	N	Oct	4	47	Hydrocarbon Div. formed to manage worldwide procurement and production of hydrocarbon raw materials	July	19	20	
Tantalum oxide prices	N	Oct	4	37	Tomoe Engineering - epoxy resin plant joint venture in Japan R Nov 19-20	R	Dec	17	40	Linde Div.'s new process for making stainless steel will be put to work in modernization of Eastern Stainless' Baltimore mill	N	Nov	5	36
Tanzania Fertilizer - NPK fertilizer plant ordered	July	5	34	Tong Suh Petrochemical - acrylonitrile plant at Ulsan, South Korea	R	Dec	17	40	Linde Div. - LOX suppliers for Apollo 11	N	July	26	51	
Taylor Wine Co. - Ultrasonic Solution Analyzer to measure solids contents of solutions and suspensions	N	July	5	44	Toray Nylon Thai - nylon fiber capacity boost in Thailand	Sept	27	27	Linde Div. - Molecular sieves for Arcagen system	July	26	28		
Technoshipment - ammonia unit for the Soviet Union	R	Nov	12	32	Torric Corp. - dust collectors	C	Dec	17	79	Nuclear Div. - Clarence E. Larson nominated to five-year term on the AEC	N	July	5	23
Melamine plants and processes (table)	R	July	12	49	Total-Chemie - aromatics plant will be built at Gonfreville	N	Sept	27	24	Nuclear Div. - President Roger Hibbs: Nuclear's where the action is	Sept	13	73	
Technip - CTIP talks fall through	N	Aug	16	101	Petrochemical projects slated for Gonfreville	Nov	12	30	OASIA votes for 3-year contract	R	Oct	18	34	
Contracts for Rhone-Poulenc para-xylene plant at Gonfreville, France	R	Dec	3	23	Toy Engineering - ammonia unit for the Soviet Union	R	Nov	12	32	Pennelias, Puerto Rico project expansion (table) N July 5-30	N	July	12	13
					Contract for fertilizer plant in Goa, India	R	Dec	17	40	Phenol: modified Raschig-process plant at Marietta, O., may be phased out	Sept	20	133	
					Contract for Mitsui ethylene plant in Russia	N	July	19	45	Promerics: many starters, few finishers	Aug	2	41	
					Licenses Lummus technology	N	Aug	30	39	Protein concentrates made from petroleum Research program in the use of membranes	Aug	30	35	
					Negotiating with South Vietnamese government for the export of nitrogenous fertilizer plant	R	Dec	17	40	Sales and earnings outlook	Sept	27	17	
					Toyoko Kaatsu see Mitsui Toatsu Chemicals	N	Aug	30	39	Texas buildup slowed by strikes	July	5	16	
					Toyoko Menka Kaisha - bids for Russians ethylene plant	N	Aug	30	39	Texas City plant explosion and fire	N	Nov	5	30
					Toyoko Rayon - Biaxially oriented polypropylene film plant in Isaraki planned	R	Nov	19	120	Tin catalysts for making urethanes patent dispute	N	Nov	12	44
					Marketing substitute silks of modified polyesters	Sept	6	38		Unifon Kemi see under name				
					Polypropylene plans	N	Sept	6	24	Union Carbide Canada Ltd. - sales and profits, first-half '69	Aug	16	38	
							Sept	6	24	Profits up	Nov	12	21	

(N Newsletter. R Roundup. C Countdown)

Union Chimique Belge - capital investments in fiscal '69-'70 will be close to \$20 million	N	July	5	35	USS Chemical Div. - Haverhill, O., phenol-from-cumene capacity (table)	Sept	20	133	Wellman-Lord - contract for Olin sulfuric acid plant near Shreveport, La.	N	July	19	18									
Joint venture phthalic anhydride and phthalates project	Aug	16	57	USS Chemical Div. - phthalic capacity additions	N	Aug	2	27	New way to cut sulfur dioxide emission from sulfuric plants to be installed at Paulsboro, N.J. plant	N	July	19	52									
Union Chimique-Chemische Bedrijven - Soc. Italiana della Union Chimique Belge see under name				Unitika - New company formed by merger of Nippon Rayon and Nichibo	R	Dec	3	24	Weskem Corp. - acquisition by Northern Petrochemical includes Patton-Adair	N	Aug	9	12									
Union des Industries Chimiques - France devaluation: Will devaluation help?	Aug	16	39	Universal Oil Products - Alamet Div. may be sold to Kekenby Co.	N	Oct	4	10	Westcoast Transmission Co. - Mountain Pacific Pipeline Co. see under name	N												
Union Electric - Dolomite injection process started up at Meramac plant	N	Dec	3	46	Japan Gasoline, joint new group that will offer licenses in the Far East	N	Oct	4	Western Laboratories - acquired by Alcolac Chemical	N	Sept	6	10									
Union Espanola de Explosivos - Rio Tinto merger July 19-48	N	July	26	27	Japanese process called MRG (for methaneric gas) rights obtained	N	Nov	19	Western Lead Products - acquisition of Bunker Hill's Pacific Div.	N	Oct	11	22									
Rio Tinto-UEE merger: Europe's mergers make problems	Aug	30	31	Phenol-from-cumene process	Sept	20	133	Western Nuclear Inc. - acquired by Phelps Dodge	N	Sept	6	10										
Union Oil Co. of California - acquires remaining interest in American Mineral Spirits Western from Atlantic Richfield	R	Aug	16	42	Chloroform - new drug to lower cholesterol levels in blood	N	Dec	24	Contracts Kaiser Engineers for uranium mill near Wellpoint, Wash.	R	July	5	19									
Union Pacific RR - Celanese's oil and gas business will be purchased	N	Sept	6	9	FDA order to recall and relabel products containing the antibiotic novobiocin	N	July	26	Westinghouse Air Brake Co., Fluid Power Div. - pilot valve	C	July	5	41									
Natural Resources Div. - Pan American Petroleum will search gas and oil in Rocky Mountain area	N	Aug	30	10	Isocyanate prices	N	Aug	30	Westinghouse Electric Corp. - a-c motors	C	Nov	19	100									
Uniroyal - Chemical Div. - Vibrathane 6005 printing roller coating	Aug	23	68	Chemical Div. - steroid prices	N	Aug	30	29	Electric motors prices	N	Nov	12	44									
GAF buys research center in Wayne, N.J.	R	Aug	23	22	Cholestipol - new drug to lower cholesterol levels in blood	N	Nov	19	Weyerhaeuser Co. - expansion program	N	Dec	3	9									
Rayon and rayon bias-belted tires	N	Oct	11	41	Colistipol - new drug to lower cholesterol levels in blood	N	Nov	19	Linerboard and corrugating-medium plant in the mid-South okayed	R	Nov	5	21									
U.S. district court in N.Y. bars Uniroyal from enforcing its maleic hydrazide patent against Ansul	N	Nov	12	13	FDA order to recall and relabel products containing the antibiotic novobiocin	N	July	26	Stock offering	R	July	12	13									
Urethane foam for aircraft fuel tanks	Aug	9	40	Isocyanates plant adjacent to polyurethane chemicals complex at La Porte, Tex. planned	N	Nov	5	13	Whippary Paper Board Co. - installation of a Rhodia system that uses anti-odorant chemicals		Aug	16	94									
United Aircraft, Pratt & Whitney Div. - competition for rocket engine for new space shuttle vehicle	N	Sept	27	23	Panalba, antibiotic combination drug, banned by FDA	N	Sept	27	Pennzoil United stock offering	R	Dec	24	26									
Sikorsky Div. - composites for rotor blades	Aug	9	37	Rigid urethane foam insulation wins Class A rating for spread-of-flame resistance	N	Nov	12	38	Whitehead Metals - nickel stolen from Philadelphia plant	R	Nov	19	44									
United Nuclear - Combustion Engineering trying to unload shares in United Nuclear	R	Nov	12	22	Tetracycline case: third chapter in tale; Justice seeks \$25 million in damages	July	26	20	Whitely Research Tool Co. - aluminum safety clamps	C	Nov	19	100									
U.S. Banknote Co. Inorganic Resin Mfg. Div. - fireproof resin is chief binding agent in a paint	July	12	27	Tetracycline restraint of trade suit	R	Dec	24	26	Whitaker Corp. - acquisition of Production Steel	R	July	12	21									
U.S. Borax & Chemical Corp. - anhydrous boric acid process patented	N	Nov	19	89	Urethane chemicals taken into second-generation products and untapped markets (table)	Dec	3	29	Dynasciences Corp. see under name													
Boron, Calif. operations modernizing and modifying	N	Dec	10	13	Virus-inactivating experimental drug tested	N	Nov	5	35	Materials Subgroup's Arnold Miller: Fervor for R&D mustn't sway my judgment on P&L		Dec	24	84								
Randolph, C.L. new president: A sailor drives the mule team	Oct	4	53	URANIT - German partner in the trilateral uranium enrichment centrifuge project	Dec	10	68	Narmco Div. - Pregreps in aircraft construction	Aug	9	37											
U.S. Gypsum - acquisition of Kinkad Industries	R	Aug	30	16	Usine Metallurgique Dolosie - Bunker-Ramo acquires a majority interest	N	Nov	12	Windecker Research - FRP-bodied planes	Aug	9	37										
U.S. Industrial Chemicals - color concentrate prices	N	July	5	32	VEBA-Chemie - ethanol plant in Belgium	R	Dec	3	23	Wintershall AG. see BASF's Wintershall AB	Nov	26	126									
U.S. Industrial Chemicals - cord and wire coating	C	July	26	57	Joint venture with Huels to double polyolefin capacity	Aug	30	32	Wisdom Rubber Industries - butyl liner for man-made lake in Hawaii	Nov	26	126										
U.S. Industrial Chemicals - ethanol capacity expansions	N	Aug	9	12	Soc. Industrielle de Polyolefines see under name	July	5	10	Wilco Chemical - acquires two Canadian operations	R	Dec	3	24									
Ethyl ether prices	N	Oct	18	57	Velsicol Chemical - California will crack down on dicamba herbicide	N	July	5	10	Justice Dept. charges the company conspired with distributors to allocate sales territories of its Kendall-brand Petroleum products	N	Aug	2	9								
Low-density PE resin prices	N	Sept	6	34	Garrison, Robert - new president: Ready to go global	Sept	27	63	Justice Dept. wants a consent decree	N	Dec	17	18									
Polytrip returnable plastic milk bottle system: switch from lease to direct sell	Aug	9	29	Venezolano del Nitrogeno (Nitroven) - El Tablazo fertilizer plants	Sept	13	15	Wolfe Ridge Joint Venture - Senator Hart accuses Hickel of planning to "give away" 10,000 acres of the richest federal shale deposits in Colorado	Oct	18	33											
Sulfuric acid plant at DeSoto, Kan. expansion	R	July	12	21	Venezuelan Petrochemical Institute (IVP) - contract for construction of the "largest nitrogen fertilizer plant in the world"	Sept	13	15	Wood Industries - plastic platemaking system (Poly-Autoplate) for high-quality letterpress color printing	N	Dec	3	9									
USI Europe, N.V. - low-density PE capacity at Antwerp plant to be doubled	R	Oct	11	36	Urea plant from Snam Progetti	N	Sept	6	24	Woodall Industries - acquisition by Libbey-Owens-Ford planned	Oct	11	28									
U.S. Industries - acquisition of Poly-Tech Corp.	R	Aug	30	16	Urea unit at Moron	Sept	13	15	Woodhall-Duckham - superphosphoric acid plant near Liege, using Oxy-Nordac process, planned	N	Sept	6	24									
Holiday Mfg. Div. - molded plastics plant at Grand Island, Neb.	N	Nov	26	22	Ventures Investment & Finance Co. see Dow Corp.	Aug	16	94	Woodward & Dickerson - fertilizer exports going up	Oct	4	34										
Production Controls Div. will build enzyme detergent plant at Chicago	N	Nov	26	22	Verley, Albert & Co. - "odor counteractant" system	Aug	16	94	Worthington Biochemical Corp. - radioactive enzymes	C	Sept	20	100									
Ulysses Irrigation Co. will produce extruded PVC irrigation pipe	N	Nov	26	22	Vibco, Inc. - impact vibrators	C	Dec	17	79	Wyandotte Chemical - BASF merger talks	N	Aug	16-34, N	Aug	23-28, N	Sept	27-9, N	Oct	11-22	Nov	12	13
U.S. Oil of Louisiana, Ltd. - Chachoula Dome mine production cut 40%	Nov	26	27	Vinatex - PVC unit at Slavery addition	R	July	5	34	BASF wants Wyandotte as a raw-materials base for U.S. expansion (charts)	Sept	6	28										
U.S. Pipe & Foundry Co. - resorcinol producer	N	Oct	11	55	Vio-Bin Corp. - solvent-extraction processes for FCC	Dec	17	61	Geismar, La., chlorine production halted by a flash explosion	N	July	26	38									
U.S. Plywood-Champion Paper Inc. - Alaskan unbleached pulp and lumber will go to Kansai Paper Mfg. Co.	July	12	13	Vistron Corp. - carbon dioxide and dry ice unit and ammonia storage tank to be built at Lima, O.	N	Oct	29	25	Propylene oxide and glycol prices	N	Oct	11	41									
U.S. Safety Services Co. - hearing protectors	C	Sept	20	101	U.S. technology for urea plant at Lima, O.	N	Aug	2	39	Toluene diisocyanate price	N	July	19	37								
U.S. Smelting, Refining & Mining - Federal Pacific Electric merger plans terminated	R	Aug	16	42	Vitrum - Swedish government discloses that the nation's pharmacies will be nationalized on Jan. 1, '71	N	Oct	18	66	Yacimientos Petroliferos Fiscales Bolivianos - Bolivia plans petrochemical buildup in wake of Gulf takeover	Dec	3	23									
U.S. Steel - Bolivian interests may be affected by military coup	N	Oct	18	66	Vulcan Materials - chlorinated solvents prices	N	Dec	17	55	Youngs Drugs Products - personal hygiene spray market	Dec	17	81									
Calumet Enforcement Conference: Chicago's Metropolitan Sanitary District denies extension of pollution control deadline	N	Sept	6	47	1,1,1-trichloroethane - New processes, new antismog rules, give new life to old solvent (tables)	Aug	9	30	Toluene diisocyanate price	N	July	19	37									
Chicago files antipollution suit	N	Oct	11	55	Wanda Petroleum - Ashland Oil suing T.C. Morrow; claims that Wanda's earnings were overstated	R	Dec	10	22	Yuba Industries - air-cooler sales begin upswing as fresh-water reserves shrink	July	5	22									
Chemical buildup	N	July	5	16	Triad pipeline project	Sept	20	38	Zinchem, Inc. - emulsion, solution polymers	C	July	26	57									
Maleic anhydride prices	N	July	5	31	Warner Electric Brake & Clutch Co. - electric clutch	C	July	5	41	Zinsser, William & Co. - emulsion, solution polymers	C	July	26	57								
Mineral investigation in Lyon County, Nev.	R	Dec	24	26	Warner-Lambert Pharmaceutical - merger with Eversharp	N	Sept	27	9	Zuari Agro Chemicals - fertilizer plant in Goa, India.	R	Dec	17	40								
Minicac laconile plant to double pellet production	R	Nov	19	44	Water Service Laboratories - acquired by Olin Corp.	R	Nov	19	44													
Replaces 14 open-hearth steelmaking furnaces with BOF	Aug	23	37																			
USS Chemicals Div. - Haverhill, O., complex contract to Litwin	N	Aug	2	10																		







